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## 1 help

list of commands: @part [-h] <part> ... sends the arguments <...command> to the part at index <part> add<sub>partmfgpn</sub>/add-part-mfg-pn [-h] [mfg] <mfg<sub>pn</sub>> adds the part (optionally from MFG [mfg]) with MFG part number <mfg<sub>pn</sub>> add<sub>partpn</sub>/add-part-pn [-h] <part<sub>number</sub>> adds the part named <part<sub>number</sub>> to the list of control screens add<sub>partspn</sub>/add-parts-pn [-h] <...part<sub>number</sub>> [<...part<sub>number</sub>> ...] adds multiple parts each named <part<sub>number</sub>> to the

list of control screens exit/close/disconnect/exit/quit [-h] closes the connection get<sub>macaddr</sub>/get-mac-addr [-h] returns this device's mac address (ethernet port) get<sub>version</sub>/get-version [-h] returns the current firmware version has-commands [-h] commands [commands...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help/help [-h] [-list-mfg] [<command>] displays this help home<sub>screen</sub>/home-screen [-h] goes to the home screen io<sub>config</sub>/io-config [-h] {spi,pin,iface,add-spi-chain,remove-spi-chain} ... configure I/O for a specific part or configure the I/O interface of the X-MW Controller len<sub>parts</sub>/len-parts [-h] returns the number of parts currently on the home screen list-commands [-h] lists all the commands available on the part list<sub>addablepartpn</sub>/list-addable-part-pn [-h] [-release-only <bool>] [-whitelist-only <bool>] [-cat-abbrev abbrev] [-c <Column names>] returns a list of the part numbers for which a control screen exists list<sub>config</sub>/list-config [-h] returns a list of the saved config files on X-MW Controller load<sub>config</sub>/load-config [-h] <configname> loads saved configuration remove<sub>all</sub>/remove-all [-h] removes all parts remove<sub>part</sub>/remove-part [-h] <part> removes the part control screen save<sub>config</sub>/save-config [-h] <configname> saves the current configuration screenshot/screenshot [-h] <filename> saves an image of the entire screen and saves it show<sub>part</sub>/show-part [-h] <part> shows the part control screen shutdown/poweroff/shutdown [-h] [-r] ends the session and shuts down the X-MW Controller

### 1.1 help @part

usage: @part [-h] <part> ...

sends the arguments <...command> to the part at index <part>

positional arguments: <part> index of part control screen to send commands to <...command> the command to send to the part control screen

optional arguments: -h, -help show this help message and exit

### 1.2 help add<sub>part mfgpn</sub>

usage: add<sub>part mfgpn</sub> [-h] [mfg] <mfg<sub>pn</sub>>

adds the part (optionally from MFG [mfg]) with MFG part number <mfg<sub>pn</sub>>

positional arguments: mfg <mfg<sub>pn</sub>>

optional arguments: -h, -help show this help message and exit

### 1.3 help add<sub>part pn</sub>

usage: add<sub>part pn</sub> [-h] <part<sub>number</sub>>

adds the part named <part<sub>number</sub>> to the list of control screens

positional arguments: <part<sub>number</sub>>  
optional arguments: -h, -help show this help message and exit

#### 1.4 help add<sub>partspn</sub>

usage: add<sub>partspn</sub> [-h] <...part<sub>number</sub>> [<...part<sub>number</sub>> ...]  
adds multiple parts each named <part<sub>number</sub>> to the list of control screens  
positional arguments: <...part<sub>number</sub>>  
optional arguments: -h, -help show this help message and exit

#### 1.5 help class<sub>name</sub>

usage: class<sub>name</sub> Start.py [-h] <pn>  
returns the class name of the part class associated with <pn>  
positional arguments: <pn> X-MW partnumber of the part class  
optional arguments: -h, -help show this help message and exit

#### 1.6 help exit

usage: exit [-h]  
closes the connection  
optional arguments: -h, -help show this help message and exit

#### 1.7 help get<sub>macaddr</sub>

usage: get<sub>macaddr</sub> [-h]  
returns this device's mac address (ethernet port)  
optional arguments: -h, -help show this help message and exit

#### 1.8 help get<sub>version</sub>

usage: get<sub>version</sub> [-h]  
returns the current firmware version  
optional arguments: -h, -help show this help message and exit

#### 1.9 help has-commands

usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit

### 1.10 help help

usage: help [-h] [-list-mfg] [<command>]  
displays this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit -list-mfg instead displays a list of all manufacturers known to this X-MW Controller

### 1.11 help home<sub>screen</sub>

usage: home<sub>screen</sub> [-h]  
goes to the home screen  
optional arguments: -h, -help show this help message and exit

### 1.12 help io<sub>config</sub>

usage: io<sub>config</sub> [-h] {spi,pin,iface,add-spi-chain,remove-spi-chain} ...  
configure I/O for a specific part or configure the I/O interface of the X-MW Controller  
positional arguments: {spi,pin,iface,add-spi-chain,remove-spi-chain} commands  
optional arguments: -h, -help show this help message and exit

### 1.13 help len<sub>parts</sub>

usage: len<sub>parts</sub> [-h]  
returns the number of parts currently on the home screen  
optional arguments: -h, -help show this help message and exit

### 1.14 help list-commands

usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit

### 1.15 help list<sub>addablepart pn</sub>

usage: list<sub>addablepart pn</sub> [-h] [-release-only <bool>] [-whitelist-only <bool>]  
[-cat-abbrev abbrev] [-c <Column names>]  
returns a list of the part numbers for which a control screen exists

optional arguments: -h, -help show this help message and exit -release-only <bool> show only the parts that show up in release mode -whitelist-only <bool> show only the parts that are on the whitelist. These parts show up in release mode -cat-abrev abbrev abbreviated category name -c <Column names> show only the columns in the comma separated list valid columns are: PN,MFG<sub>PN,MFG,CAT</sub>ABREV,IO TYPE

### 1.16 help list<sub>config</sub>

usage: list<sub>config</sub> [-h]  
returns a list of the saved config files on X-MW Controller  
optional arguments: -h, -help show this help message and exit

### 1.17 help load<sub>config</sub>

usage: load<sub>config</sub> [-h] <config<sub>name</sub>>  
loads saved configuration  
positional arguments: <config<sub>name</sub>> name of saved configuration file  
optional arguments: -h, -help show this help message and exit

### 1.18 help remove<sub>all</sub>

usage: remove<sub>all</sub> [-h]  
removes all parts  
optional arguments: -h, -help show this help message and exit

### 1.19 help remove<sub>part</sub>

usage: remove<sub>part</sub> [-h] <part>  
removes the part control screen  
positional arguments: <part> index of part to remove  
optional arguments: -h, -help show this help message and exit

### 1.20 help save<sub>config</sub>

usage: save<sub>config</sub> [-h] <config<sub>name</sub>>  
saves the current configuration  
positional arguments: <config<sub>name</sub>> name of configuration file to save  
optional arguments: -h, -help show this help message and exit



## 1.21 help screenshot

usage: screenshot [-h] <filename>

saves an image of the entire screen and saves it

positional arguments: <filename> filename to save the screenshot into on the file system

optional arguments: -h, --help show this help message and exit

## 1.22 help show<sub>part</sub>

usage: show<sub>part</sub> [-h] <part>

shows the part control screen

positional arguments: <part> index of part to display

optional arguments: -h, --help show this help message and exit

## 1.23 help shutdown

usage: shutdown [-h] [-r]

ends the session and shuts down the X-MW Controller

optional arguments: -h, --help show this help message and exit -r reboot the X-MW controller

## 1.24 part: XM-A2L7-0409

### 1.24.1 XM-A2L7-0409: help

list of commands: class-name [-h] returns the class name of the part class  
this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
has-commands [-h] commands [commands ...] returns a list of lines each  
look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-  
labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev]  
[-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets  
the state that will be written to the switch virt-write [-h] [-i <event type>]  
[-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus  
and return the log output write [-h] writes the data to the device

1. XM-A2L7-0409: help class-name usage: class-name [-h]

returns the class name of the part class this part

optional arguments: -h, --help show this help message and exit

2. XM-A2L7-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A2L7-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A2L7-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A2L7-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A2L7-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A2L7-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A2L7-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A2L7-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A2L7-0409: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.25 part: XM-A2L8-0409

### 1.25.1 XM-A2L8-0409: help

list of commands: class-name [-h] returns the class name of the part class this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A2L8-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A2L8-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A2L8-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

4. XM-A2L8-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
5. XM-A2L8-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A2L8-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A2L8-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A2L8-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A2L8-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A2L8-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.26 part: XM-A2L9-0409

### 1.26.1 XM-A2L9-0409: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>'  
 help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part  
 list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to  
 part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch  
 virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus,  
 instead write to a virtual spi bus and return the log output  
 write [-h] writes the data to the device

1. XM-A2L9-0409: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
2. XM-A2L9-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
 gets the state that will be written to switch  
 optional arguments: -h, -help show this help message and exit
3. XM-A2L9-0409: help has-commands usage: has-commands [-h] com-  
 mands [commands ...]  
 returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
4. XM-A2L9-0409: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the  
 help of  
 optional arguments: -h, -help show this help message and exit

5. XM-A2L9-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A2L9-0409: help list\_labels usage: list\_labels [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A2L9-0409: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A2L9-0409: help set\_state usage: set\_state [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A2L9-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO\_PIN not valid for IO\_SPI
10. XM-A2L9-0409: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.27 part: XM-A2M1-0819

### 1.27.1 XM-A2M1-0819: help

list of commands: class-name [-h] returns the class name of the part class  
this part get\_state/get-state [-h] gets the state that will be written to switch

has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A2M1-0819: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A2M1-0819: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A2M1-0819: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A2M1-0819: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
5. XM-A2M1-0819: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A2M1-0819: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit

7. XM-A2M1-0819: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A2M1-0819: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A2M1-0819: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
10. XM-A2M1-0819: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.28 part: XM-A3B3-0409

### 1.28.1 XM-A3B3-0409: help

list of commands: class-name [-h] returns the class name of the part class  
this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device



1. XM-A3B3-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3B3-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A3B3-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A3B3-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A3B3-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A3B3-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A3B3-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A3B3-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A3B3-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
10. XM-A3B3-0409: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.29 part: XM-A3K6-0604

### 1.29.1 XM-A3K6-0604: help

list of commands: class-name [-h] returns the class name of the part class this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h] returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-attn/maxattn [-h] sets the attenuation to maximum value min-attn/minattn [-h] sets the attenuation to minimum value part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h] <number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A3K6-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3K6-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit

3. XM-A3K6-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A3K6-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A3K6-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A3K6-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A3K6-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A3K6-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A3K6-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

10. XM-A3K6-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-A3K6-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-A3K6-0604: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A3K6-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

### 1.30 part: XM-A3K7-0604

#### 1.30.1 XM-A3K7-0604: help

list of commands: class-name [-h] returns the class name of the part class  
 this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
 returns the current attenuation setting in dB NOTE: this only reads from  
 the X-MW controller, not the part has-commands [-h] commands [commands  
 ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-  
 h] [<command>] shows this help list-commands [-h] lists all the commands  
 available on the part max-attn/maxattn [-h] sets the attenuation to max-  
 imum value min-attn/minattn [-h] sets the attenuation to minimum value  
 part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
 io-type] returns info on the part this control screen was designed for set-  
 attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]

<number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A3K7-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3K7-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-A3K7-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A3K7-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A3K7-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A3K7-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A3K7-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit

8. XM-A3K7-0604: help min-attn usage: min-attn [-h]  
 sets the attenuation to minimum value  
 optional arguments: -h, -help show this help message and exit
9. XM-A3K7-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-A3K7-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-A3K7-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-A3K7-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A3K7-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.31 part: XM-A3K9-0604

### 1.31.1 XM-A3K9-0604: help

list of commands: class-name [-h] returns the class name of the part class  
this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from  
the X-MW controller, not the part has-commands [-h] commands [commands  
...] returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
help [-h] [<command>] shows this help list-commands [-h] lists all the commands  
available on the part max-attn/maxattn [-h] sets the attenuation to max-  
imum value min-attn/minattn [-h] sets the attenuation to minimum value  
part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
io-type] returns info on the part this control screen was designed for set-  
attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]  
<number> sets the bit values with an non-negative integer <number> virt-  
write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead  
write to a virtual spi bus and return the log output write [-h] writes the data  
to the device

1. XM-A3K9-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3K9-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-A3K9-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads  
from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A3K9-0604: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit

5. XM-A3K9-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A3K9-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A3K9-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A3K9-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A3K9-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-A3K9-0604: help set-attn usage: set-attn [-h] <float>  
sets the attenuation in dB  
positional arguments: <float> attenuation in dB  
optional arguments: -h, -help show this help message and exit
11. XM-A3K9-0604: help set-bits usage: set-bits [-h] <number>  
sets the bit values with an non-negative integer <number>  
positional arguments: <number>  
optional arguments: -h, -help show this help message and exit
12. XM-A3K9-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]



instead of writing to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

13. XM-A3K9-0604: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

### 1.32 part: XM-A3L3-0404

#### 1.32.1 XM-A3L3-0404: help

list of commands: class-name [-h] returns the class name of the part class this part get<sub>attn2</sub>/get-attn-2 [-h] sets the phase shift of RF<sub>OUT2</sub> get<sub>ilstbl2</sub>/get-il-stbl-2 [-h] sets the phase shift of RF<sub>OUT2</sub> get<sub>phase1</sub>/get-phase-1 [-h] gets the phase shift of RF<sub>OUT1</sub> get<sub>phase2</sub>/get-phase-2 [-h] gets the phase shift of RF<sub>OUT2</sub> has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part mpac<sub>info</sub>/mpac-info [-h] gets the information on the frames of the MPAC each frame is returned as <name>: <LSB val> <# of bits> part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attn2</sub>/set-attn-2 [-h] <attn> sets the phase shift of RF<sub>OUT2</sub> set<sub>ilstbl2</sub>/set-il-stbl-2 [-h] <ilstbl> sets the phase shift of RF<sub>OUT2</sub> set<sub>phase1</sub>/set-phase-1 [-h] <phase> sets the phase shift of RF<sub>OUT1</sub> set<sub>phase2</sub>/set-phase-2 [-h] <phase> sets the phase shift of RF<sub>OUT2</sub> virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A3L3-0404: help class-name usage: class-name [-h]

returns the class name of the part class this part

optional arguments: -h, -help show this help message and exit

2. XM-A3L3-0404: help get<sub>attn2</sub> usage: get<sub>attn2</sub> [-h]

sets the phase shift of RF<sub>OUT2</sub>

optional arguments: -h, -help show this help message and exit

3. XM-A3L3-0404: help get<sub>ilstbl2</sub> usage: get<sub>ilstbl2</sub> [-h]  
sets the phase shift of RF<sub>OUT2</sub>  
optional arguments: -h, -help show this help message and exit
4. XM-A3L3-0404: help get<sub>phase1</sub> usage: get<sub>phase1</sub> [-h]  
gets the phase shift of RF<sub>OUT1</sub>  
optional arguments: -h, -help show this help message and exit
5. XM-A3L3-0404: help get<sub>phase2</sub> usage: get<sub>phase2</sub> [-h]  
gets the phase shift of RF<sub>OUT2</sub>  
optional arguments: -h, -help show this help message and exit
6. XM-A3L3-0404: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
7. XM-A3L3-0404: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
8. XM-A3L3-0404: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
9. XM-A3L3-0404: help mpac<sub>info</sub> usage: mpac<sub>info</sub> [-h]  
gets the information on the frames of the MPAC each frame is returned  
as <name>: <LSB val> <# of bits>  
optional arguments: -h, -help show this help message and exit
10. XM-A3L3-0404: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

11. XM-A3L3-0404: help set<sub>attn2</sub> usage: set<sub>attn2</sub> [-h] <attn>  
 sets the phase shift of RF<sub>OUT2</sub>  
 positional arguments: <attn> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
12. XM-A3L3-0404: help set<sub>ilstbl2</sub> usage: set<sub>ilstbl2</sub> [-h] <ilstbl>  
 sets the phase shift of RF<sub>OUT2</sub>  
 positional arguments: <ilstbl> Insertion Loss Stabilizer setting in dB  
 optional arguments: -h, -help show this help message and exit
13. XM-A3L3-0404: help set<sub>phase1</sub> usage: set<sub>phase1</sub> [-h] <phase>  
 sets the phase shift of RF<sub>OUT1</sub>  
 positional arguments: <phase> phase shift in degrees  
 optional arguments: -h, -help show this help message and exit
14. XM-A3L3-0404: help set<sub>phase2</sub> usage: set<sub>phase2</sub> [-h] <phase>  
 sets the phase shift of RF<sub>OUT2</sub>  
 positional arguments: <phase> phase shift in degrees  
 optional arguments: -h, -help show this help message and exit
15. XM-A3L3-0404: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
16. XM-A3L3-0404: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

### 1.33 part: XM-A3L4-0404

#### 1.33.1 XM-A3L4-0404: help

list of commands: `class-name [-h]` returns the class name of the part class  
this part `getattn2/get-attn-2 [-h]` sets the phase shift of RF<sub>OUT2</sub> `getilstbl2/get-ilstbl-2 [-h]` sets the phase shift of RF<sub>OUT2</sub> `getphase1/get-phase-1 [-h]` gets the phase shift of RF<sub>OUT1</sub> `getphase2/get-phase-2 [-h]` gets the phase shift of RF<sub>OUT2</sub> `has-commands [-h]` commands `[commands ...]` returns a list of lines each look like '`<command>: <ispresent>`' `help [-h] [<command>]` shows this help `list-commands [-h]` lists all the commands available on the part `mpacinfo/mpac-info [-h]` gets the information on the frames of the MPAC each frame is returned as `<name>: <LSB val> <# of bits>` `part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]` returns info on the part this control screen was designed for `setattn2/set-attn-2 [-h] <attn>` sets the phase shift of RF<sub>OUT2</sub> `setilstbl2/set-ilstbl-2 [-h] <ilstbl>` sets the phase shift of RF<sub>OUT2</sub> `setphase1/set-phase-1 [-h] <phase>` sets the phase shift of RF<sub>OUT1</sub> `setphase2/set-phase-2 [-h] <phase>` sets the phase shift of RF<sub>OUT2</sub> `virt-write [-h] [-i <event type>] [-f <bool>]` instead of writting to spi bus, instead write to a virtual spi bus and return the log output `write [-h]` writes the data to the device

1. XM-A3L4-0404: help `class-name` usage: `class-name [-h]`  
returns the class name of the part class this part  
optional arguments: `-h`, `-help` show this help message and exit
2. XM-A3L4-0404: help `getattn2` usage: `getattn2 [-h]`  
sets the phase shift of RF<sub>OUT2</sub>  
optional arguments: `-h`, `-help` show this help message and exit
3. XM-A3L4-0404: help `getilstbl2` usage: `getilstbl2 [-h]`  
sets the phase shift of RF<sub>OUT2</sub>  
optional arguments: `-h`, `-help` show this help message and exit
4. XM-A3L4-0404: help `getphase1` usage: `getphase1 [-h]`  
gets the phase shift of RF<sub>OUT1</sub>  
optional arguments: `-h`, `-help` show this help message and exit
5. XM-A3L4-0404: help `getphase2` usage: `getphase2 [-h]`

- gets the phase shift of  $\text{RF}_{\text{OUT}2}$   
optional arguments: -h, -help show this help message and exit
6. XM-A3L4-0404: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
7. XM-A3L4-0404: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
8. XM-A3L4-0404: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
9. XM-A3L4-0404: help mpac<sub>info</sub> usage: mpac<sub>info</sub> [-h]  
gets the information on the frames of the MPAC each frame is returned as <name>: <LSB val> <# of bits>  
optional arguments: -h, -help show this help message and exit
10. XM-A3L4-0404: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
11. XM-A3L4-0404: help set<sub>attn2</sub> usage: set<sub>attn2</sub> [-h] <attn>  
sets the phase shift of  $\text{RF}_{\text{OUT}2}$   
positional arguments: <attn> attenuation in dB  
optional arguments: -h, -help show this help message and exit

12. XM-A3L4-0404: help set<sub>ilstbl2</sub> usage: set<sub>ilstbl2</sub> [-h] <il<sub>stbl</sub>>  
 sets the phase shift of RF<sub>OUT2</sub>  
 positional arguments: <il<sub>stbl</sub>> Insertion Loss Stabilizer setting in dB  
 optional arguments: -h, -help show this help message and exit
13. XM-A3L4-0404: help set<sub>phase1</sub> usage: set<sub>phase1</sub> [-h] <phase>  
 sets the phase shift of RF<sub>OUT1</sub>  
 positional arguments: <phase> phase shift in degrees  
 optional arguments: -h, -help show this help message and exit
14. XM-A3L4-0404: help set<sub>phase2</sub> usage: set<sub>phase2</sub> [-h] <phase>  
 sets the phase shift of RF<sub>OUT2</sub>  
 positional arguments: <phase> phase shift in degrees  
 optional arguments: -h, -help show this help message and exit
15. XM-A3L4-0404: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
16. XM-A3L4-0404: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

### 1.34 part: XM-A3L5-0404

#### 1.34.1 XM-A3L5-0404: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>attn2</sub>/get-attn-2 [-h] sets the phase shift of RF<sub>OUT2</sub> get<sub>ilstbl2</sub>/get-  
 il-stbl-2 [-h] sets the phase shift of RF<sub>OUT2</sub> get<sub>phase1</sub>/get-phase-1 [-h] gets  
 the phase shift of RF<sub>OUT1</sub> get<sub>phase2</sub>/get-phase-2 [-h] gets the phase shift  
 of RF<sub>OUT2</sub> has-commands [-h] commands [commands ...] returns a list  
 of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>]

shows this help list-commands [-h] lists all the commands available on the part mpac<sub>info</sub>/mpac-info [-h] gets the information on the frames of the MPAC each frame is returned as <name>: <LSB val> <# of bits> part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attn2</sub>/set-attn-2 [-h] <attn> sets the phase shift of RF<sub>OUT2</sub> set<sub>ilstbl2</sub>/set-il-stbl-2 [-h] <ilstbl> sets the phase shift of RF<sub>OUT2</sub> set<sub>phase1</sub>/set-phase-1 [-h] <phase> sets the phase shift of RF<sub>OUT1</sub> set<sub>phase2</sub>/set-phase-2 [-h] <phase> sets the phase shift of RF<sub>OUT2</sub> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A3L5-0404: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3L5-0404: help get<sub>attn2</sub> usage: get<sub>attn2</sub> [-h]  
sets the phase shift of RF<sub>OUT2</sub>  
optional arguments: -h, -help show this help message and exit
3. XM-A3L5-0404: help get<sub>ilstbl2</sub> usage: get<sub>ilstbl2</sub> [-h]  
sets the phase shift of RF<sub>OUT2</sub>  
optional arguments: -h, -help show this help message and exit
4. XM-A3L5-0404: help get<sub>phase1</sub> usage: get<sub>phase1</sub> [-h]  
gets the phase shift of RF<sub>OUT1</sub>  
optional arguments: -h, -help show this help message and exit
5. XM-A3L5-0404: help get<sub>phase2</sub> usage: get<sub>phase2</sub> [-h]  
gets the phase shift of RF<sub>OUT2</sub>  
optional arguments: -h, -help show this help message and exit
6. XM-A3L5-0404: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit

7. XM-A3L5-0404: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
8. XM-A3L5-0404: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
9. XM-A3L5-0404: help mpac<sub>info</sub> usage: mpac<sub>info</sub> [-h]  
gets the information on the frames of the MPAC each frame is returned as <name>: <LSB val> <# of bits>  
optional arguments: -h, -help show this help message and exit
10. XM-A3L5-0404: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
11. XM-A3L5-0404: help set<sub>attn2</sub> usage: set<sub>attn2</sub> [-h] <attn>  
sets the phase shift of RF<sub>OUT2</sub>  
positional arguments: <attn> attenuation in dB  
optional arguments: -h, -help show this help message and exit
12. XM-A3L5-0404: help set<sub>ilstbl2</sub> usage: set<sub>ilstbl2</sub> [-h] <ilstbl>  
sets the phase shift of RF<sub>OUT2</sub>  
positional arguments: <ilstbl> Insertion Loss Stabilizer setting in dB  
optional arguments: -h, -help show this help message and exit
13. XM-A3L5-0404: help set<sub>phase1</sub> usage: set<sub>phase1</sub> [-h] <phase>  
sets the phase shift of RF<sub>OUT1</sub>  
positional arguments: <phase> phase shift in degrees  
optional arguments: -h, -help show this help message and exit



14. XM-A3L5-0404: help set<sub>phase2</sub> usage: set<sub>phase2</sub> [-h] <phase>  
 sets the phase shift of RF<sub>OUT2</sub>  
 positional arguments: <phase> phase shift in degrees  
 optional arguments: -h, -help show this help message and exit
15. XM-A3L5-0404: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
16. XM-A3L5-0404: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

### 1.35 part: XM-A3N1-0404

#### 1.35.1 XM-A3N1-0404: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-  
 labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets  
 the state that will be written to the switch virt-write [-h] [-i <event type>]  
 [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus  
 and return the log output write [-h] writes the data to the device

1. XM-A3N1-0404: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit

2. XM-A3N1-0404: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A3N1-0404: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A3N1-0404: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A3N1-0404: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A3N1-0404: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A3N1-0404: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A3N1-0404: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A3N1-0404: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A3N1-0404: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

### 1.36 part: XM-A3N2-0409

#### 1.36.1 XM-A3N2-0409: help

list of commands: class-name [-h] returns the class name of the part class this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A3N2-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3N2-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A3N2-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

4. XM-A3N2-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
5. XM-A3N2-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A3N2-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A3N2-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A3N2-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A3N2-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A3N2-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.37 part: XM-A3N3-0409

### 1.37.1 XM-A3N3-0409: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-  
 labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets  
 the state that will be written to the switch virt-write [-h] [-i <event type>]  
 [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus  
 and return the log output write [-h] writes the data to the device

1. XM-A3N3-0409: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
2. XM-A3N3-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
 gets the state that will be written to switch  
 optional arguments: -h, -help show this help message and exit
3. XM-A3N3-0409: help has-commands usage: has-commands [-h] com-  
 mands [commands ...]  
 returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
4. XM-A3N3-0409: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the  
 help of  
 optional arguments: -h, -help show this help message and exit

5. XM-A3N3-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A3N3-0409: help list\_labels usage: list\_labels [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A3N3-0409: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A3N3-0409: help set\_state usage: set\_state [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A3N3-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO\_PIN not valid for IO\_SPI
10. XM-A3N3-0409: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

### 1.38 part: XM-A3R1-0409

#### 1.38.1 XM-A3R1-0409: help

list of commands: class-name [-h] returns the class name of the part class  
this part get\_state/get-state [-h] gets the state that will be written to switch

has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A3R1-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A3R1-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A3R1-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A3R1-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A3R1-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A3R1-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit

7. XM-A3R1-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A3R1-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A3R1-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
10. XM-A3R1-0409: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.39 part: XM-A3R8-0409

### 1.39.1 XM-A3R8-0409: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns



attribute exists as 'True' or does not exist as 'False' help [-h] [<command>]  
shows this help list-commands [-h] lists all the commands available on the  
part list\_attr/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev]  
[-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
part this control screen was designed for set\_attr/set-attr [-h] [-v] <name>  
<value> sets the value of attribute <name> to <value>. <value> must be  
a valid floating point or integer set\_reg/set-reg [-h] [-c] [-t] <value> assigns  
<value> to the appropriate register based on how the part would interpret  
<value> show\_namedtab/show-named-tab [-h] <tab title> shows tab with ti-  
tle <tab title> show\_tab/show-tab [-h] <tab> shows tab numbered <tab> it  
<tab> startswith a digit shows tab with attribute name <tab> otherwise  
virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus,  
instead write to a virtual spi bus and return the log output write [-h] writes  
the data to the device

1. XM-A3R8-0409: help attr\_info usage: attr\_info [-h] [-r] [-o] [-t] <attr  
name>  
gets info of the specific attribute  
positional arguments: <attr name> name of attribute  
optional arguments: -h, -help show this help message and exit -r, -  
range shows the range of values allowed for the attribute -o, -options  
shows the list of options available for the attribute -t, -type shows the  
type of the attribute
2. XM-A3R8-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A3R8-0409: help direct\_write usage: direct\_write [-h] [-v] [-i <event  
type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command  
only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified  
(original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -  
virt-write instead of writing to SPI, writes to virtual spi and returns  
the write log -i <event type> If specified, include only <event type>

in the results. This can be specified more than once (see virt-write command)

4. XM-A3R8-0409: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A3R8-0409: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A3R8-0409: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-A3R8-0409: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A3R8-0409: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A3R8-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit

10. XM-A3R8-0409: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A3R8-0409: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>]  
 [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid  
 <grid name> lists only attributes on the grid named <grid name> -  
 titles show the titles of the attributes -readonly-status show read-only  
 status of the attributes
12. XM-A3R8-0409: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-  
 name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-  
 abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-A3R8-0409: help set\_attr usage: set\_attr [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a  
 valid floating point or integer  
 positional arguments: <name> attribute name of the data <value>  
 new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -  
 value sets the option data by the option value instead of option title
14. XM-A3R8-0409: help set\_reg usage: set\_reg [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part  
 would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c,  
 -cancel-recalc re-calculate data after setting register in X-MW Con-  
 troller -t, -track-change track and return a list of affected attributes  
 and whether or not they changed
15. XM-A3R8-0409: help show\_namedtab usage: show\_namedtab [-h] <tab ti-  
 tle>

shows tab with title <tab title>

positional arguments: <tab title> title that appears on the tab

optional arguments: -h, -help show this help message and exit

16. XM-A3R8-0409: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>

shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise

positional arguments: <tab> attribute name of the tab or the tab number

optional arguments: -h, -help show this help message and exit

17. XM-A3R8-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A3R8-0409: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.40 part: XM-A3X3-0409

### 1.40.1 XM-A3X3-0409: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns

attribute exists as 'True' or does not exist as 'False' help [-h] [<command>]  
shows this help list-commands [-h] lists all the commands available on the  
part list\_attr/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev]  
[-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
part this control screen was designed for set\_attr/set-attr [-h] [-v] <name>  
<value> sets the value of attribute <name> to <value>. <value> must be  
a valid floating point or integer set\_reg/set-reg [-h] [-c] [-t] <value> assigns  
<value> to the appropriate register based on how the part would interpret  
<value> show\_namedtab/show-named-tab [-h] <tab title> shows tab with ti-  
tle <tab title> show\_tab/show-tab [-h] <tab> shows tab numbered <tab> it  
<tab> startswith a digit shows tab with attribute name <tab> otherwise  
virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus,  
instead write to a virtual spi bus and return the log output write [-h] writes  
the data to the device

1. XM-A3X3-0409: help attr\_info usage: attr\_info [-h] [-r] [-o] [-t] <attr  
name>  
gets info of the specific attribute  
positional arguments: <attr name> name of attribute  
optional arguments: -h, -help show this help message and exit -r, -  
range shows the range of values allowed for the attribute -o, -options  
shows the list of options available for the attribute -t, -type shows the  
type of the attribute
2. XM-A3X3-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A3X3-0409: help direct\_write usage: direct\_write [-h] [-v] [-i <event  
type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command  
only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified  
(original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -  
virt-write instead of writing to SPI, writes to virtual spi and returns  
the write log -i <event type> If specified, include only <event type>

in the results. This can be specified more than once (see virt-write command)

4. XM-A3X3-0409: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A3X3-0409: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A3X3-0409: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-A3X3-0409: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A3X3-0409: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A3X3-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit

10. XM-A3X3-0409: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A3X3-0409: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>]  
 [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid  
 <grid name> lists only attributes on the grid named <grid name> -  
 titles show the titles of the attributes -readonly-status show read-only  
 status of the attributes
12. XM-A3X3-0409: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-  
 name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-  
 abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-A3X3-0409: help set\_attr usage: set\_attr [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a  
 valid floating point or integer  
 positional arguments: <name> attribute name of the data <value>  
 new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -  
 value sets the option data by the option value instead of option title
14. XM-A3X3-0409: help set\_reg usage: set\_reg [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part  
 would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c,  
 -cancel-recalc re-calculate data after setting register in X-MW Con-  
 troller -t, -track-change track and return a list of affected attributes  
 and whether or not they changed
15. XM-A3X3-0409: help show\_namedtab usage: show\_namedtab [-h] <tab ti-  
 tle>

shows tab with title <tab title>

positional arguments: <tab title> title that appears on the tab

optional arguments: -h, -help show this help message and exit

16. XM-A3X3-0409: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>

shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise

positional arguments: <tab> attribute name of the tab or the tab number

optional arguments: -h, -help show this help message and exit

17. XM-A3X3-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A3X3-0409: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.41 part: XM-A4E5-0419

### 1.41.1 XM-A4E5-0419: help

list of commands: class-name [-h] returns the class name of the part class  
this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device



1. XM-A4E5-0419: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A4E5-0419: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A4E5-0419: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A4E5-0419: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A4E5-0419: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A4E5-0419: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A4E5-0419: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A4E5-0419: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A4E5-0419: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
10. XM-A4E5-0419: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.42 part: XM-A5D6-0604

### 1.42.1 XM-A5D6-0604: help

list of commands: class-name [-h] returns the class name of the part class this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h] returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-attn/maxattn [-h] sets the attenuation to maximum value min-attn/minattn [-h] sets the attenuation to minimum value part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h] <number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5D6-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5D6-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit

3. XM-A5D6-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A5D6-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A5D6-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A5D6-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A5D6-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A5D6-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A5D6-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

10. XM-A5D6-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-A5D6-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-A5D6-0604: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A5D6-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.43 part: XM-A5D7-0604

### 1.43.1 XM-A5D7-0604: help

list of commands: class-name [-h] returns the class name of the part class  
 this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
 returns the current attenuation setting in dB NOTE: this only reads from  
 the X-MW controller, not the part has-commands [-h] commands [commands  
 ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-  
 h] [<command>] shows this help list-commands [-h] lists all the commands  
 available on the part max-attn/maxattn [-h] sets the attenuation to max-  
 imum value min-attn/minattn [-h] sets the attenuation to minimum value  
 part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
 io-type] returns info on the part this control screen was designed for set-  
 attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]

<number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5D7-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5D7-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-A5D7-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A5D7-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A5D7-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A5D7-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A5D7-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit

8. XM-A5D7-0604: help min-attn usage: min-attn [-h]  
 sets the attenuation to minimum value  
 optional arguments: -h, -help show this help message and exit
9. XM-A5D7-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-A5D7-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-A5D7-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-A5D7-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A5D7-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.44 part: XM-A5F8-0604

### 1.44.1 XM-A5F8-0604: help

list of commands: class-name [-h] returns the class name of the part class  
this part dps-info [-h] returns lsb<sub>val</sub> and number of bits get-phase/getphase  
[-h] returns the current phase setting in degrees NOTE: this only reads from  
the X-MW controller, not the part has-commands [-h] commands [commands  
...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-  
h] [<command>] shows this help list-commands [-h] lists all the commands  
available on the part max-phase/maxphase [-h] sets the attenuation to max-  
imum value min-phase/minphase [-h] sets the attenuation to minimum value  
part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
io-type] returns info on the part this control screen was designed for set-  
bits/setbits [-h] <number> sets the bit values with an non-negative integer  
<number> set-phase/setphase [-h] <float> sets the phase in degrees virt-  
write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead  
write to a virtual spi bus and return the log output write [-h] writes the data  
to the device

1. XM-A5F8-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5F8-0604: help dps-info usage: dps-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-A5F8-0604: help get-phase usage: get-phase [-h]  
returns the current phase setting in degrees NOTE: this only reads  
from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A5F8-0604: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit

5. XM-A5F8-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A5F8-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A5F8-0604: help max-phase usage: max-phase [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A5F8-0604: help min-phase usage: min-phase [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A5F8-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-A5F8-0604: help set-bits usage: set-bits [-h] <number>  
sets the bit values with an non-negative integer <number>  
positional arguments: <number>  
optional arguments: -h, -help show this help message and exit
11. XM-A5F8-0604: help set-phase usage: set-phase [-h] <float>  
sets the phase in degrees  
positional arguments: <float> phase in degrees  
optional arguments: -h, -help show this help message and exit
12. XM-A5F8-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]



instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

13. XM-A5F8-0604: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.45 part: XM-A5F9-0604

### 1.45.1 XM-A5F9-0604: help

list of commands: class-name [-h] returns the class name of the part class this part dps-info [-h] returns lsb<sub>val</sub> and number of bits get-phase/getphase [-h] returns the current phase setting in degrees NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-phase/maxphase [-h] sets the attenuation to maximum value min-phase/minphase [-h] sets the attenuation to minimum value part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-bits/setbits [-h] <number> sets the bit values with an non-negative integer <number> set-phase/setphase [-h] <float> sets the phase in degrees virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5F9-0604: help class-name usage: class-name [-h]

returns the class name of the part class this part

optional arguments: -h, -help show this help message and exit

2. XM-A5F9-0604: help dps-info usage: dps-info [-h]

returns lsb<sub>val</sub> and number of bits

optional arguments: -h, -help show this help message and exit

3. XM-A5F9-0604: help get-phase usage: get-phase [-h]  
returns the current phase setting in degrees NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A5F9-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A5F9-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A5F9-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A5F9-0604: help max-phase usage: max-phase [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A5F9-0604: help min-phase usage: min-phase [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A5F9-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

10. XM-A5F9-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
11. XM-A5F9-0604: help set-phase usage: set-phase [-h] <float>  
 sets the phase in degrees  
 positional arguments: <float> phase in degrees  
 optional arguments: -h, -help show this help message and exit
12. XM-A5F9-0604: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A5F9-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.46 part: XM-A5G1-0409

### 1.46.1 XM-A5G1-0409: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-  
 labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets  
 the state that will be written to the switch virt-write [-h] [-i <event type>]  
 [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus  
 and return the log output write [-h] writes the data to the device

1. XM-A5G1-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5G1-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A5G1-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A5G1-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A5G1-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A5G1-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A5G1-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A5G1-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A5G1-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A5G1-0409: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.47 part: XM-A5G2-0409

### 1.47.1 XM-A5G2-0409: help

list of commands: class-name [-h] returns the class name of the part class this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5G2-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5G2-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A5G2-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

4. XM-A5G2-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
5. XM-A5G2-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A5G2-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A5G2-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A5G2-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A5G2-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A5G2-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.48 part: XM-A5G6-0404

### 1.48.1 XM-A5G6-0404: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-  
 labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets  
 the state that will be written to the switch virt-write [-h] [-i <event type>]  
 [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus  
 and return the log output write [-h] writes the data to the device

1. XM-A5G6-0404: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
2. XM-A5G6-0404: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
 gets the state that will be written to switch  
 optional arguments: -h, -help show this help message and exit
3. XM-A5G6-0404: help has-commands usage: has-commands [-h] com-  
 mands [commands ...]  
 returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
4. XM-A5G6-0404: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the  
 help of  
 optional arguments: -h, -help show this help message and exit

5. XM-A5G6-0404: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A5G6-0404: help list\_labels usage: list\_labels [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A5G6-0404: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A5G6-0404: help set\_state usage: set\_state [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A5G6-0404: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO\_PIN not valid for IO\_SPI
10. XM-A5G6-0404: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.49 part: XM-A5G7-0404

### 1.49.1 XM-A5G7-0404: help

list of commands: class-name [-h] returns the class name of the part class  
this part get\_state/get-state [-h] gets the state that will be written to switch



has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5G7-0404: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5G7-0404: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A5G7-0404: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A5G7-0404: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A5G7-0404: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A5G7-0404: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit

7. XM-A5G7-0404: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A5G7-0404: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A5G7-0404: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
10. XM-A5G7-0404: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.50 part: XM-A5M1-0409

### 1.50.1 XM-A5M1-0409: help

list of commands: class-name [-h] returns the class name of the part class  
this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5M1-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5M1-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A5M1-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A5M1-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A5M1-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A5M1-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A5M1-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A5M1-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A5M1-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A5M1-0409: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.51 part: XM-A5M2-0409

### 1.51.1 XM-A5M2-0409: help

list of commands: class-name [-h] returns the class name of the part class this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5M2-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A5M2-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A5M2-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

4. XM-A5M2-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
5. XM-A5M2-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A5M2-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A5M2-0409: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A5M2-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A5M2-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

10. XM-A5M2-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.52 part: XM-A5M4-0409

### 1.52.1 XM-A5M4-0409: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5M4-0409: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5M4-0409: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5M4-0409: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5M4-0409: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5M4-0409: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5M4-0409: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5M4-0409: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
8. XM-A5M4-0409: help has\_attr usage: has\_attr [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
9. XM-A5M4-0409: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
10. XM-A5M4-0409: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A5M4-0409: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5M4-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



13. XM-A5M4-0409: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5M4-0409: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5M4-0409: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5M4-0409: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` startswith a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5M4-0409: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5M4-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.53 part: XM-A5M6-0409

### 1.53.1 XM-A5M6-0409: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5M6-0409: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5M6-0409: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5M6-0409: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5M6-0409: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5M6-0409: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5M6-0409: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5M6-0409: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A5M6-0409: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A5M6-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A5M6-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A5M6-0409: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5M6-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A5M6-0409: help set<sub>attr</sub> usage: set<sub>attr</sub> [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer  
 positional arguments: <name> attribute name of the data <value> new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -value sets the option data by the option value instead of option title
14. XM-A5M6-0409: help set<sub>reg</sub> usage: set<sub>reg</sub> [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c, -cancel-recalc re-calculate data after setting register in X-MW Controller -t, -track-change track and return a list of affected attributes and whether or not they changed
15. XM-A5M6-0409: help show<sub>namedtab</sub> usage: show<sub>namedtab</sub> [-h] <tab title>  
 shows tab with title <tab title>  
 positional arguments: <tab title> title that appears on the tab  
 optional arguments: -h, -help show this help message and exit
16. XM-A5M6-0409: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>  
 shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise  
 positional arguments: <tab> attribute name of the tab or the tab number  
 optional arguments: -h, -help show this help message and exit
17. XM-A5M6-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A5M6-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.54 part: XM-A5N5-0609

### 1.54.1 XM-A5N5-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5N5-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5N5-0609: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5N5-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5N5-0609: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5N5-0609: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5N5-0609: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5N5-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A5N5-0609: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A5N5-0609: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A5N5-0609: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A5N5-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5N5-0609: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



13. XM-A5N5-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5N5-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5N5-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5N5-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5N5-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5N5-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.55 part: XM-A5P5-0609

### 1.55.1 XM-A5P5-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5P5-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5P5-0609: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5P5-0609: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5P5-0609: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5P5-0609: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5P5-0609: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5P5-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
8. XM-A5P5-0609: help has\_attr usage: has\_attr [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
9. XM-A5P5-0609: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
10. XM-A5P5-0609: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A5P5-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5P5-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A5P5-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5P5-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5P5-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5P5-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5P5-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5P5-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.56 part: XM-A5P6-0609

### 1.56.1 XM-A5P6-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5P6-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5P6-0609: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5P6-0609: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5P6-0609: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5P6-0609: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5P6-0609: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5P6-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
8. XM-A5P6-0609: help has\_attr usage: has\_attr [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
9. XM-A5P6-0609: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
10. XM-A5P6-0609: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A5P6-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5P6-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



13. XM-A5P6-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5P6-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5P6-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5P6-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5P6-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5P6-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.57 part: XM-A5P9-0609

### 1.57.1 XM-A5P9-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5P9-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5P9-0609: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5P9-0609: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5P9-0609: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5P9-0609: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5P9-0609: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5P9-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A5P9-0609: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A5P9-0609: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A5P9-0609: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A5P9-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5P9-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A5P9-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5P9-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5P9-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5P9-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5P9-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5P9-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.58 part: XM-A5R1-0609

### 1.58.1 XM-A5R1-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <ispresent>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5R1-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5R1-0609: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5R1-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5R1-0609: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5R1-0609: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5R1-0609: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5R1-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A5R1-0609: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A5R1-0609: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A5R1-0609: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A5R1-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5R1-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



13. XM-A5R1-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5R1-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5R1-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5R1-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5R1-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5R1-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.59 part: XM-A5R2-0609

### 1.59.1 XM-A5R2-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <ispresent>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5R2-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5R2-0609: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5R2-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5R2-0609: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5R2-0609: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5R2-0609: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5R2-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A5R2-0609: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A5R2-0609: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A5R2-0609: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A5R2-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5R2-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A5R2-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5R2-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5R2-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5R2-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5R2-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5R2-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.60 part: XM-A5R3-0609

### 1.60.1 XM-A5R3-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5R3-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5R3-0609: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5R3-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5R3-0609: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5R3-0609: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5R3-0609: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5R3-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
8. XM-A5R3-0609: help has\_attr usage: has\_attr [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
9. XM-A5R3-0609: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
10. XM-A5R3-0609: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A5R3-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5R3-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



13. XM-A5R3-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5R3-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5R3-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5R3-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5R3-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5R3-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.61 part: XM-A5R4-0609

### 1.61.1 XM-A5R4-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5R4-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5R4-0609: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5R4-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5R4-0609: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5R4-0609: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5R4-0609: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5R4-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A5R4-0609: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A5R4-0609: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A5R4-0609: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A5R4-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5R4-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A5R4-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5R4-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5R4-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5R4-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5R4-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5R4-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.62 part: XM-A5R6-0609

### 1.62.1 XM-A5R6-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5R6-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5R6-0609: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5R6-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5R6-0609: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5R6-0609: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5R6-0609: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5R6-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
8. XM-A5R6-0609: help has\_attr usage: has\_attr [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
9. XM-A5R6-0609: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
10. XM-A5R6-0609: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A5R6-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5R6-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



13. XM-A5R6-0609: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5R6-0609: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5R6-0609: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5R6-0609: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5R6-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5R6-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.63 part: XM-A5Y9-0409

### 1.63.1 XM-A5Y9-0409: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A5Y9-0409: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A5Y9-0409: help class\_name usage: class\_name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A5Y9-0409: help direct\_write usage: direct\_write [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A5Y9-0409: help dump\_regs usage: dump\_regs [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A5Y9-0409: help get\_attr usage: get\_attr [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A5Y9-0409: help get\_names usage: get\_names [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A5Y9-0409: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
8. XM-A5Y9-0409: help has\_attr usage: has\_attr [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
9. XM-A5Y9-0409: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
10. XM-A5Y9-0409: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A5Y9-0409: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A5Y9-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A5Y9-0409: help `set_attr` usage: `set_attr [-h] [-v] <name> <value>`  
 sets the value of attribute `<name>` to `<value>`. `<value>` must be a valid floating point or integer  
 positional arguments: `<name>` attribute name of the data `<value>` new attribute value of the data  
 optional arguments: `-h`, `-help` show this help message and exit `-v`, `-value` sets the option data by the option value instead of option title
14. XM-A5Y9-0409: help `set_reg` usage: `set_reg [-h] [-c] [-t] <value>`  
 assigns `<value>` to the appropriate register based on how the part would interpret `<value>`  
 positional arguments: `<value>` the value of register in hexadecimal  
 optional arguments: `-h`, `-help` show this help message and exit `-c`, `-cancel-recalc` re-calculate data after setting register in X-MW Controller `-t`, `-track-change` track and return a list of affected attributes and whether or not they changed
15. XM-A5Y9-0409: help `show_namedtab` usage: `show_namedtab [-h] <tab title>`  
 shows tab with title `<tab title>`  
 positional arguments: `<tab title>` title that appears on the tab  
 optional arguments: `-h`, `-help` show this help message and exit
16. XM-A5Y9-0409: help `show_tab` usage: `show_tab [-h] <tab>`  
 shows tab numbered `<tab>` if `<tab>` starts with a digit shows tab with attribute name `<tab>` otherwise  
 positional arguments: `<tab>` attribute name of the tab or the tab number  
 optional arguments: `-h`, `-help` show this help message and exit
17. XM-A5Y9-0409: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: `-h`, `-help` show this help message and exit `-i <event type>` If specified, include only `<event type>` in the results. This can be specified more than once `-f <bool>`, `-only-final <bool>` shows only final value of each pin change for `IO_PIN` not valid for `IO_SPI`

18. XM-A5Y9-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.64 part: XM-A637-0409

### 1.64.1 XM-A637-0409: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-  
 labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets  
 the state that will be written to the switch virt-write [-h] [-i <event type>]  
 [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus  
 and return the log output write [-h] writes the data to the device

1. XM-A637-0409: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
2. XM-A637-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
 gets the state that will be written to switch  
 optional arguments: -h, -help show this help message and exit
3. XM-A637-0409: help has-commands usage: has-commands [-h] com-  
 mands [commands ...]  
 returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
4. XM-A637-0409: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the  
 help of  
 optional arguments: -h, -help show this help message and exit

5. XM-A637-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A637-0409: help list\_labels usage: list\_labels [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A637-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A637-0409: help set\_state usage: set\_state [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A637-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO\_PIN not valid for IO\_SPI
10. XM-A637-0409: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.65 part: XM-A638-0819

### 1.65.1 XM-A638-0819: help

list of commands: attr\_info/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class

this part `directwrite/direct-write [-h] [-v] [-i <event type>] [data]` writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined `dumpregs/dump-regs [-h] [register]` returns a list of registers as a new-line separated list of hexadecimal values `getattr/get-attr [-h] <name>` gets the value of attribute <name> `getnames/get-names [-h]` returns the list of named widgets (useful for the show-tab and show-named-tab commands) `has-commands [-h] commands [commands ...]` returns a list of lines each look like '<command>: <is<sub>present</sub>>' `hasattr/has-attr [-h] <name>` returns attribute exists as 'True' or does not exist as 'False' `help [-h] [<command>]` shows this help `list-commands [-h]` lists all the commands available on the part `listattr/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]` lists all attributes (type `help list-attr` for more info) `part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]` returns info on the part this control screen was designed for `setattr/set-attr [-h] [-v] <name> <value>` sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer `setreg/set-reg [-h] [-c] [-t] <value>` assigns <value> to the appropriate register based on how the part would interpret <value> `shownamedtab/show-named-tab [-h] <tab title>` shows tab with title <tab title> `showtab/show-tab [-h] <tab>` shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise `virt-write [-h] [-i <event type>] [-f <bool>]` instead of writing to spi bus, instead write to a virtual spi bus and return the log output `write [-h]` writes the data to the device

1. XM-A638-0819: `help attrinfo usage: attrinfo [-h] [-r] [-o] [-t] <attr name>`  
gets info of the specific attribute  
positional arguments: <attr name> name of attribute  
optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute
2. XM-A638-0819: `help class-name usage: class-name [-h]`  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A638-0819: `help directwrite usage: directwrite [-h] [-v] [-i <event type>] [data]`



writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined

positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)

optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)

4. XM-A638-0819: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A638-0819: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A638-0819: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-A638-0819: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A638-0819: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit

9. XM-A638-0819: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A638-0819: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A638-0819: help list<sub>attr</sub> usage: list<sub>attr</sub> [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A638-0819: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-A638-0819: help set<sub>attr</sub> usage: set<sub>attr</sub> [-h] [-v] <name> <value>  
sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer  
positional arguments: <name> attribute name of the data <value> new attribute value of the data  
optional arguments: -h, -help show this help message and exit -v, -value sets the option data by the option value instead of option title
14. XM-A638-0819: help set<sub>reg</sub> usage: set<sub>reg</sub> [-h] [-c] [-t] <value>  
assigns <value> to the appropriate register based on how the part would interpret <value>  
positional arguments: <value> the value of register in hexadecimal

optional arguments: -h, -help show this help message and exit -c, -cancel-recalc re-calculate data after setting register in X-MW Controller -t, -track-change track and return a list of affected attributes and whether or not they changed

15. XM-A638-0819: help show<sub>namedtab</sub> usage: show<sub>namedtab</sub> [-h] <tab title>

shows tab with title <tab title>

positional arguments: <tab title> title that appears on the tab

optional arguments: -h, -help show this help message and exit

16. XM-A638-0819: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>

shows tab numbered <tab> if <tab> startswith a digit shows tab with attribute name <tab> otherwise

positional arguments: <tab> attribute name of the tab or the tab number

optional arguments: -h, -help show this help message and exit

17. XM-A638-0819: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A638-0819: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.66 part: XM-A6F3-0409

### 1.66.1 XM-A6F3-0409: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help

list-commands [-h] lists all the commands available on the part list\_labels/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set\_state/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A6F3-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A6F3-0409: help get\_state usage: get\_state [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A6F3-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is\_present>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A6F3-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A6F3-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A6F3-0409: help list\_labels usage: list\_labels [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit

7. XM-A6F3-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A6F3-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A6F3-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
10. XM-A6F3-0409: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.67 part: XM-A6J8-0819

### 1.67.1 XM-A6J8-0819: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns

attribute exists as 'True' or does not exist as 'False' help [-h] [<command>]  
 shows this help list-commands [-h] lists all the commands available on the  
 part list\_attr/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set\_attr/set-attr [-h] [-v] <name>  
 <value> sets the value of attribute <name> to <value>. <value> must be  
 a valid floating point or integer set\_reg/set-reg [-h] [-c] [-t] <value> assigns  
 <value> to the appropriate register based on how the part would interpret  
 <value> show\_namedtab/show-named-tab [-h] <tab title> shows tab with ti-  
 tle <tab title> show\_tab/show-tab [-h] <tab> shows tab numbered <tab> it  
 <tab> startswith a digit shows tab with attribute name <tab> otherwise  
 virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus,  
 instead write to a virtual spi bus and return the log output write [-h] writes  
 the data to the device

1. XM-A6J8-0819: help attr\_info usage: attr\_info [-h] [-r] [-o] [-t] <attr  
 name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute  
 optional arguments: -h, -help show this help message and exit -r, -  
 range shows the range of values allowed for the attribute -o, -options  
 shows the list of options available for the attribute -t, -type shows the  
 type of the attribute
2. XM-A6J8-0819: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
3. XM-A6J8-0819: help direct\_write usage: direct\_write [-h] [-v] [-i <event  
 type>] [data]  
 writes the data in 'numWriteData' to the part NOTE: this command  
 only works on parts where 'numWriteData' is defined  
 positional arguments: data set 'numWriteData' to [data] if specified  
 (original value of 'numWriteData' will be restored after writing)  
 optional arguments: -h, -help show this help message and exit -v, -  
 virt-write instead of writing to SPI, writes to virtual spi and returns  
 the write log -i <event type> If specified, include only <event type>

in the results. This can be specified more than once (see virt-write command)

4. XM-A6J8-0819: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A6J8-0819: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A6J8-0819: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-A6J8-0819: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A6J8-0819: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A6J8-0819: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit

10. XM-A6J8-0819: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A6J8-0819: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>]  
 [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid  
 <grid name> lists only attributes on the grid named <grid name> -  
 titles show the titles of the attributes -readonly-status show read-only  
 status of the attributes
12. XM-A6J8-0819: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
 name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-  
 abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-A6J8-0819: help set\_attr usage: set\_attr [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a  
 valid floating point or integer  
 positional arguments: <name> attribute name of the data <value>  
 new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -  
 value sets the option data by the option value instead of option title
14. XM-A6J8-0819: help set\_reg usage: set\_reg [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part  
 would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c,  
 -cancel-recalc re-calculate data after setting register in X-MW Con-  
 troller -t, -track-change track and return a list of affected attributes  
 and whether or not they changed
15. XM-A6J8-0819: help show\_namedtab usage: show\_namedtab [-h] <tab ti-  
 tle>



shows tab with title <tab title>

positional arguments: <tab title> title that appears on the tab

optional arguments: -h, -help show this help message and exit

16. XM-A6J8-0819: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>

shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise

positional arguments: <tab> attribute name of the tab or the tab number

optional arguments: -h, -help show this help message and exit

17. XM-A6J8-0819: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A6J8-0819: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.68 part: XM-A6J9-0409

### 1.68.1 XM-A6J9-0409: help

list of commands: class-name [-h] returns the class name of the part class  
this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A6J9-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A6J9-0409: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
gets the state that will be written to switch  
optional arguments: -h, -help show this help message and exit
3. XM-A6J9-0409: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
4. XM-A6J9-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the  
help of  
optional arguments: -h, -help show this help message and exit
5. XM-A6J9-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A6J9-0409: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A6J9-0409: help part-info usage: part-info [-h] [-cat-abrev] [-cat-  
name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-  
abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A6J9-0409: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit

9. XM-A6J9-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPi</sub>

10. XM-A6J9-0409: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.69 part: XM-A724-0609

### 1.69.1 XM-A724-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise

virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A724-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute  
 optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute
2. XM-A724-0609: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
3. XM-A724-0609: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
 writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
 positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
 optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A724-0609: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
 returns a list of registers as a newline separated list of hexadecimal values  
 positional arguments: register if defined, the command will only output the value of register [register]  
 optional arguments: -h, -help show this help message and exit
5. XM-A724-0609: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
 gets the value of attribute <name>

positional arguments: <name> name of the attribute

optional arguments: -h, -help show this help message and exit

6. XM-A724-0609: help get<sub>names</sub> usage: get<sub>names</sub> [-h]

returns the list of named widgets (useful for the show-tab and show-named-tab commands)

optional arguments: -h, -help show this help message and exit

7. XM-A724-0609: help has-commands usage: has-commands [-h] commands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

8. XM-A724-0609: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>

returns attribute exists as 'True' or does not exist as 'False'

positional arguments: <name> name of the attribute

optional arguments: -h, -help show this help message and exit

9. XM-A724-0609: help help usage: help [-h] [<command>]

shows this help

positional arguments: <command> the command you want to see the help of

optional arguments: -h, -help show this help message and exit

10. XM-A724-0609: help list-commands usage: list-commands [-h]

lists all the commands available on the part

optional arguments: -h, -help show this help message and exit

11. XM-A724-0609: help list<sub>attr</sub> usage: list<sub>attr</sub> [-h] [-on-grid <grid name>] [-titles] [-readonly-status]

lists all attributes (type help list-attr for more info)

optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes

12. XM-A724-0609: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-A724-0609: help set<sub>attr</sub> usage: set<sub>attr</sub> [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer  
 positional arguments: <name> attribute name of the data <value> new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -value sets the option data by the option value instead of option title
14. XM-A724-0609: help set<sub>reg</sub> usage: set<sub>reg</sub> [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c, -cancel-recalc re-calculate data after setting register in X-MW Controller -t, -track-change track and return a list of affected attributes and whether or not they changed
15. XM-A724-0609: help show<sub>namedtab</sub> usage: show<sub>namedtab</sub> [-h] <tab title>  
 shows tab with title <tab title>  
 positional arguments: <tab title> title that appears on the tab  
 optional arguments: -h, -help show this help message and exit
16. XM-A724-0609: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>  
 shows tab numbered <tab> if <tab> startswith a digit shows tab with attribute name <tab> otherwise  
 positional arguments: <tab> attribute name of the tab or the tab number  
 optional arguments: -h, -help show this help message and exit

17. XM-A724-0609: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
18. XM-A724-0609: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.70 part: XM-A726-0419

### 1.70.1 XM-A726-0419: help

list of commands: class-name [-h] returns the class name of the part class  
 this part get<sub>state</sub>/get-state [-h] gets the state that will be written to switch  
 has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help  
 list-commands [-h] lists all the commands available on the part list<sub>labels</sub>/list-labels [-h] lists all the labels that can be switched to part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>state</sub>/set-state [-h] <label> sets the state that will be written to the switch virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A726-0419: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
2. XM-A726-0419: help get<sub>state</sub> usage: get<sub>state</sub> [-h]  
 gets the state that will be written to switch  
 optional arguments: -h, -help show this help message and exit
3. XM-A726-0419: help has-commands usage: has-commands [-h] commands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

4. XM-A726-0419: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
5. XM-A726-0419: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
6. XM-A726-0419: help list<sub>labels</sub> usage: list<sub>labels</sub> [-h]  
lists all the labels that can be switched to  
optional arguments: -h, -help show this help message and exit
7. XM-A726-0419: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
8. XM-A726-0419: help set<sub>state</sub> usage: set<sub>state</sub> [-h] <label>  
sets the state that will be written to the switch  
positional arguments: <label> label of the state to switch to  
optional arguments: -h, -help show this help message and exit
9. XM-A726-0419: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>



10. XM-A726-0419: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.71 part: XM-A741-0409

### 1.71.1 XM-A741-0409: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A741-0409: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-A741-0409: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A741-0409: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-A741-0409: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A741-0409: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A741-0409: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit

7. XM-A741-0409: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A741-0409: help has\_attr usage: has\_attr [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A741-0409: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
10. XM-A741-0409: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
11. XM-A741-0409: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info)  
optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
12. XM-A741-0409: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

13. XM-A741-0409: help set<sub>attr</sub> usage: set<sub>attr</sub> [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer  
 positional arguments: <name> attribute name of the data <value> new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -value sets the option data by the option value instead of option title
14. XM-A741-0409: help set<sub>reg</sub> usage: set<sub>reg</sub> [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c, -cancel-recalc re-calculate data after setting register in X-MW Controller -t, -track-change track and return a list of affected attributes and whether or not they changed
15. XM-A741-0409: help show<sub>namedtab</sub> usage: show<sub>namedtab</sub> [-h] <tab title>  
 shows tab with title <tab title>  
 positional arguments: <tab title> title that appears on the tab  
 optional arguments: -h, -help show this help message and exit
16. XM-A741-0409: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>  
 shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise  
 positional arguments: <tab> attribute name of the tab or the tab number  
 optional arguments: -h, -help show this help message and exit
17. XM-A741-0409: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A741-0409: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.72 part: XM-A761-0604

### 1.72.1 XM-A761-0604: help

list of commands: class-name [-h] returns the class name of the part class  
 this part dsa-info [-h] returns  $lsb_{val}$  and number of bits get-attn/getattn [-h]  
 returns the current attenuation setting in dB NOTE: this only reads from  
 the X-MW controller, not the part has-commands [-h] commands [commands  
 ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-  
 h] [<command>] shows this help list-commands [-h] lists all the commands  
 available on the part max-attn/maxattn [-h] sets the attenuation to max-  
 imum value min-attn/minattn [-h] sets the attenuation to minimum value  
 part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
 io-type] returns info on the part this control screen was designed for set-  
 attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]  
 <number> sets the bit values with an non-negative integer <number> virt-  
 write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead  
 write to a virtual spi bus and return the log output write [-h] writes the data  
 to the device

1. XM-A761-0604: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
2. XM-A761-0604: help dsa-info usage: dsa-info [-h]  
 returns  $lsb_{val}$  and number of bits  
 optional arguments: -h, -help show this help message and exit
3. XM-A761-0604: help get-attn usage: get-attn [-h]  
 returns the current attenuation setting in dB NOTE: this only reads  
 from the X-MW controller, not the part  
 optional arguments: -h, -help show this help message and exit
4. XM-A761-0604: help has-commands usage: has-commands [-h] com-  
 mands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

5. XM-A761-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A761-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A761-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A761-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A761-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-A761-0604: help set-attn usage: set-attn [-h] <float>  
sets the attenuation in dB  
positional arguments: <float> attenuation in dB  
optional arguments: -h, -help show this help message and exit
11. XM-A761-0604: help set-bits usage: set-bits [-h] <number>  
sets the bit values with an non-negative integer <number>  
positional arguments: <number>  
optional arguments: -h, -help show this help message and exit

12. XM-A761-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A761-0604: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.73 part: XM-A7D4-0604

### 1.73.1 XM-A7D4-0604: help

list of commands: class-name [-h] returns the class name of the part class this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h] returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-attn/maxattn [-h] sets the attenuation to maximum value min-attn/minattn [-h] sets the attenuation to minimum value part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h] <number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A7D4-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A7D4-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit

3. XM-A7D4-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A7D4-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A7D4-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A7D4-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A7D4-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-A7D4-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-A7D4-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type



10. XM-A7D4-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-A7D4-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-A7D4-0604: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A7D4-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.74 part: XM-A7M3-0609

### 1.74.1 XM-A7M3-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of  
 the specific attribute class-name [-h] returns the class name of the part class  
 this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the  
 data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is de-  
 fined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-  
 line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets  
 the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of  
 named widgets (useful for the show-tab and show-named-tab commands)  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns

attribute exists as 'True' or does not exist as 'False' help [-h] [<command>]  
shows this help list-commands [-h] lists all the commands available on the  
part list\_attr/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev]  
[-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
part this control screen was designed for set\_attr/set-attr [-h] [-v] <name>  
<value> sets the value of attribute <name> to <value>. <value> must be  
a valid floating point or integer set\_reg/set-reg [-h] [-c] [-t] <value> assigns  
<value> to the appropriate register based on how the part would interpret  
<value> show\_namedtab/show-named-tab [-h] <tab title> shows tab with ti-  
tle <tab title> show\_tab/show-tab [-h] <tab> shows tab numbered <tab> it  
<tab> startswith a digit shows tab with attribute name <tab> otherwise  
virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus,  
instead write to a virtual spi bus and return the log output write [-h] writes  
the data to the device

1. XM-A7M3-0609: help attr\_info usage: attr\_info [-h] [-r] [-o] [-t] <attr  
name>  
gets info of the specific attribute  
positional arguments: <attr name> name of attribute  
optional arguments: -h, -help show this help message and exit -r, -  
range shows the range of values allowed for the attribute -o, -options  
shows the list of options available for the attribute -t, -type shows the  
type of the attribute
2. XM-A7M3-0609: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-A7M3-0609: help direct\_write usage: direct\_write [-h] [-v] [-i <event  
type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command  
only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified  
(original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -  
virt-write instead of writing to SPI, writes to virtual spi and returns  
the write log -i <event type> If specified, include only <event type>

in the results. This can be specified more than once (see virt-write command)

4. XM-A7M3-0609: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-A7M3-0609: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-A7M3-0609: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-A7M3-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-A7M3-0609: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-A7M3-0609: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit

10. XM-A7M3-0609: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-A7M3-0609: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>]  
 [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid  
 <grid name> lists only attributes on the grid named <grid name> -  
 titles show the titles of the attributes -readonly-status show read-only  
 status of the attributes
12. XM-A7M3-0609: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-  
 name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-  
 abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-A7M3-0609: help set\_attr usage: set\_attr [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a  
 valid floating point or integer  
 positional arguments: <name> attribute name of the data <value>  
 new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -  
 value sets the option data by the option value instead of option title
14. XM-A7M3-0609: help set\_reg usage: set\_reg [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part  
 would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c,  
 -cancel-recalc re-calculate data after setting register in X-MW Con-  
 troller -t, -track-change track and return a list of affected attributes  
 and whether or not they changed
15. XM-A7M3-0609: help show\_namedtab usage: show\_namedtab [-h] <tab ti-  
 tle>

shows tab with title <tab title>

positional arguments: <tab title> title that appears on the tab

optional arguments: -h, -help show this help message and exit

16. XM-A7M3-0609: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>

shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise

positional arguments: <tab> attribute name of the tab or the tab number

optional arguments: -h, -help show this help message and exit

17. XM-A7M3-0609: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-A7M3-0609: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.75 part: XM-A8D9-0604

### 1.75.1 XM-A8D9-0604: help

list of commands: class-name [-h] returns the class name of the part class  
this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-attn/maxattn [-h] sets the attenuation to maximum value min-attn/minattn [-h] sets the attenuation to minimum value  
part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]

<number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-A8D9-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-A8D9-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-A8D9-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-A8D9-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-A8D9-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-A8D9-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-A8D9-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit

8. XM-A8D9-0604: help min-attn usage: min-attn [-h]  
 sets the attenuation to minimum value  
 optional arguments: -h, -help show this help message and exit
9. XM-A8D9-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-A8D9-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-A8D9-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-A8D9-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-A8D9-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.76 part: XM-B1C5-0604

### 1.76.1 XM-B1C5-0604: help

list of commands: class-name [-h] returns the class name of the part class  
this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from  
the X-MW controller, not the part has-commands [-h] commands [commands  
...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h]  
[-h] [<command>] shows this help list-commands [-h] lists all the commands  
available on the part max-attn/maxattn [-h] sets the attenuation to max-  
imum value min-attn/minattn [-h] sets the attenuation to minimum value  
part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
io-type] returns info on the part this control screen was designed for set-  
attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]  
<number> sets the bit values with an non-negative integer <number> virt-  
write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead  
write to a virtual spi bus and return the log output write [-h] writes the data  
to the device

1. XM-B1C5-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-B1C5-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-B1C5-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads  
from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-B1C5-0604: help has-commands usage: has-commands [-h] com-  
mands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit



5. XM-B1C5-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-B1C5-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-B1C5-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-B1C5-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-B1C5-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-B1C5-0604: help set-attn usage: set-attn [-h] <float>  
sets the attenuation in dB  
positional arguments: <float> attenuation in dB  
optional arguments: -h, -help show this help message and exit
11. XM-B1C5-0604: help set-bits usage: set-bits [-h] <number>  
sets the bit values with an non-negative integer <number>  
positional arguments: <number>  
optional arguments: -h, -help show this help message and exit
12. XM-B1C5-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

13. XM-B1C5-0604: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.77 part: XM-B1M3-0604

### 1.77.1 XM-B1M3-0604: help

list of commands: class-name [-h] returns the class name of the part class this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h] returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-attn/maxattn [-h] sets the attenuation to maximum value min-attn/minattn [-h] sets the attenuation to minimum value part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h] <number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-B1M3-0604: help class-name usage: class-name [-h]

returns the class name of the part class this part

optional arguments: -h, -help show this help message and exit

2. XM-B1M3-0604: help dsa-info usage: dsa-info [-h]

returns lsb<sub>val</sub> and number of bits

optional arguments: -h, -help show this help message and exit

3. XM-B1M3-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-B1M3-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-B1M3-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-B1M3-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-B1M3-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-B1M3-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-B1M3-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

10. XM-B1M3-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-B1M3-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-B1M3-0604: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-B1M3-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.78 part: XM-B2E1-0804

### 1.78.1 XM-B2E1-0804: help

list of commands: class-name [-h] returns the class name of the part class  
 this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
 returns the current attenuation setting in dB NOTE: this only reads from  
 the X-MW controller, not the part has-commands [-h] commands [commands  
 ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-  
 h] [<command>] shows this help list-commands [-h] lists all the commands  
 available on the part max-attn/maxattn [-h] sets the attenuation to max-  
 imum value min-attn/minattn [-h] sets the attenuation to minimum value  
 part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-  
 io-type] returns info on the part this control screen was designed for set-  
 attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h]

<number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-B2E1-0804: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-B2E1-0804: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-B2E1-0804: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-B2E1-0804: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-B2E1-0804: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-B2E1-0804: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-B2E1-0804: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit

8. XM-B2E1-0804: help min-attn usage: min-attn [-h]  
 sets the attenuation to minimum value  
 optional arguments: -h, -help show this help message and exit
9. XM-B2E1-0804: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-B2E1-0804: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-B2E1-0804: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-B2E1-0804: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-B2E1-0804: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.79 part: XM-B5C2-0609

### 1.79.1 XM-B5C2-0609: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-B5C2-0609: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>

gets info of the specific attribute

positional arguments: <attr name> name of attribute

optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute

2. XM-B5C2-0609: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-B5C2-0609: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-B5C2-0609: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-B5C2-0609: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-B5C2-0609: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-B5C2-0609: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands



- optional arguments: -h, -help show this help message and exit
8. XM-B5C2-0609: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
 returns attribute exists as 'True' or does not exist as 'False'  
 positional arguments: <name> name of the attribute  
 optional arguments: -h, -help show this help message and exit
  9. XM-B5C2-0609: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
  10. XM-B5C2-0609: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
  11. XM-B5C2-0609: help list<sub>attr</sub> usage: list<sub>attr</sub> [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes
  12. XM-B5C2-0609: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
  13. XM-B5C2-0609: help set<sub>attr</sub> usage: set<sub>attr</sub> [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer  
 positional arguments: <name> attribute name of the data <value> new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -value sets the option data by the option value instead of option title

14. XM-B5C2-0609: help `setreg` usage: `setreg [-h] [-c] [-t] <value>`  
 assigns <value> to the appropriate register based on how the part would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c, -cancel-recalc re-calculate data after setting register in X-MW Controller -t, -track-change track and return a list of affected attributes and whether or not they changed
15. XM-B5C2-0609: help `shownamedtab` usage: `shownamedtab [-h] <tab title>`  
 shows tab with title <tab title>  
 positional arguments: <tab title> title that appears on the tab  
 optional arguments: -h, -help show this help message and exit
16. XM-B5C2-0609: help `showtab` usage: `showtab [-h] <tab>`  
 shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise  
 positional arguments: <tab> attribute name of the tab or the tab number  
 optional arguments: -h, -help show this help message and exit
17. XM-B5C2-0609: help `virt-write` usage: `virt-write [-h] [-i <event type>] [-f <bool>]`  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
18. XM-B5C2-0609: help `write` usage: `write [-h]`  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.80 part: XM-B6F1-0604

### 1.80.1 XM-B6F1-0604: help

list of commands: class-name [-h] returns the class name of the part class  
this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from  
the X-MW controller, not the part has-commands [-h] commands [commands  
...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h]  
[-h] [<command>] shows this help list-commands [-h] lists all the commands  
available on the part max-attn/maxattn [-h] sets the attenuation to maximum  
value min-attn/minattn [-h] sets the attenuation to minimum value  
part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for set-attn/setattn [-h]  
<float> sets the attenuation in dB set-bits/setbits [-h] <number> sets the bit  
values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
write [-h] writes the data to the device

1. XM-B6F1-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-B6F1-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit
3. XM-B6F1-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-B6F1-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <is<sub>present</sub>>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit

5. XM-B6F1-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-B6F1-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-B6F1-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-B6F1-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-B6F1-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
10. XM-B6F1-0604: help set-attn usage: set-attn [-h] <float>  
sets the attenuation in dB  
positional arguments: <float> attenuation in dB  
optional arguments: -h, -help show this help message and exit
11. XM-B6F1-0604: help set-bits usage: set-bits [-h] <number>  
sets the bit values with an non-negative integer <number>  
positional arguments: <number>  
optional arguments: -h, -help show this help message and exit
12. XM-B6F1-0604: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writing to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

13. XM-B6F1-0604: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.81 part: XM-B6H7-0819

### 1.81.1 XM-B6H7-0819: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of the specific attribute class-name [-h] returns the class name of the part class this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is defined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of named widgets (useful for the show-tab and show-named-tab commands) has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns attribute exists as 'True' or does not exist as 'False' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part list<sub>attr</sub>/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status] lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set<sub>attr</sub>/set-attr [-h] [-v] <name> <value> sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer set<sub>reg</sub>/set-reg [-h] [-c] [-t] <value> assigns <value> to the appropriate register based on how the part would interpret <value> show<sub>namedtab</sub>/show-named-tab [-h] <tab title> shows tab with title <tab title> show<sub>tab</sub>/show-tab [-h] <tab> shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise virt-write [-h] [-i <event type>] [-f <bool>] instead of writing to spi bus,

instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-B6H7-0819: help attr<sub>info</sub> usage: attr<sub>info</sub> [-h] [-r] [-o] [-t] <attr name>  
gets info of the specific attribute  
positional arguments: <attr name> name of attribute  
optional arguments: -h, -help show this help message and exit -r, -range shows the range of values allowed for the attribute -o, -options shows the list of options available for the attribute -t, -type shows the type of the attribute
2. XM-B6H7-0819: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
3. XM-B6H7-0819: help direct<sub>write</sub> usage: direct<sub>write</sub> [-h] [-v] [-i <event type>] [data]  
writes the data in 'numWriteData' to the part NOTE: this command only works on parts where 'numWriteData' is defined  
positional arguments: data set 'numWriteData' to [data] if specified (original value of 'numWriteData' will be restored after writing)  
optional arguments: -h, -help show this help message and exit -v, -virt-write instead of writing to SPI, writes to virtual spi and returns the write log -i <event type> If specified, include only <event type> in the results. This can be specified more than once (see virt-write command)
4. XM-B6H7-0819: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-B6H7-0819: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>

positional arguments: <name> name of the attribute

optional arguments: -h, -help show this help message and exit

6. XM-B6H7-0819: help get<sub>names</sub> usage: get<sub>names</sub> [-h]

returns the list of named widgets (useful for the show-tab and show-named-tab commands)

optional arguments: -h, -help show this help message and exit

7. XM-B6H7-0819: help has-commands usage: has-commands [-h] commands [commands ...]

returns a list of lines each look like '<command>: <is<sub>present</sub>>'

positional arguments: commands

optional arguments: -h, -help show this help message and exit

8. XM-B6H7-0819: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>

returns attribute exists as 'True' or does not exist as 'False'

positional arguments: <name> name of the attribute

optional arguments: -h, -help show this help message and exit

9. XM-B6H7-0819: help help usage: help [-h] [<command>]

shows this help

positional arguments: <command> the command you want to see the help of

optional arguments: -h, -help show this help message and exit

10. XM-B6H7-0819: help list-commands usage: list-commands [-h]

lists all the commands available on the part

optional arguments: -h, -help show this help message and exit

11. XM-B6H7-0819: help list<sub>attr</sub> usage: list<sub>attr</sub> [-h] [-on-grid <grid name>] [-titles] [-readonly-status]

lists all attributes (type help list-attr for more info)

optional arguments: -h, -help show this help message and exit -on-grid <grid name> lists only attributes on the grid named <grid name> -titles show the titles of the attributes -readonly-status show read-only status of the attributes

12. XM-B6H7-0819: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-B6H7-0819: help set<sub>attr</sub> usage: set<sub>attr</sub> [-h] [-v] <name> <value>  
sets the value of attribute <name> to <value>. <value> must be a valid floating point or integer  
positional arguments: <name> attribute name of the data <value> new attribute value of the data  
optional arguments: -h, -help show this help message and exit -v, -value sets the option data by the option value instead of option title
14. XM-B6H7-0819: help set<sub>reg</sub> usage: set<sub>reg</sub> [-h] [-c] [-t] <value>  
assigns <value> to the appropriate register based on how the part would interpret <value>  
positional arguments: <value> the value of register in hexadecimal  
optional arguments: -h, -help show this help message and exit -c, -cancel-recalc re-calculate data after setting register in X-MW Controller -t, -track-change track and return a list of affected attributes and whether or not they changed
15. XM-B6H7-0819: help show<sub>namedtab</sub> usage: show<sub>namedtab</sub> [-h] <tab title>  
shows tab with title <tab title>  
positional arguments: <tab title> title that appears on the tab  
optional arguments: -h, -help show this help message and exit
16. XM-B6H7-0819: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>  
shows tab numbered <tab> if <tab> starts with a digit shows tab with attribute name <tab> otherwise  
positional arguments: <tab> attribute name of the tab or the tab number  
optional arguments: -h, -help show this help message and exit



17. XM-B6H7-0819: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
instead of writting to spi bus, instead write to a virtual spi bus and return the log output  
optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
18. XM-B6H7-0819: help write usage: write [-h]  
writes the data to the device  
optional arguments: -h, -help show this help message and exit

## 1.82 part: XM-B6J7-0604

### 1.82.1 XM-B6J7-0604: help

list of commands: class-name [-h] returns the class name of the part class this part dsa-info [-h] returns lsb<sub>val</sub> and number of bits get-attn/getattn [-h] returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part max-attn/maxattn [-h] sets the attenuation to maximum value min-attn/minattn [-h] sets the attenuation to minimum value part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for set-attn/setattn [-h] <float> sets the attenuation in dB set-bits/setbits [-h] <number> sets the bit values with an non-negative integer <number> virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-B6J7-0604: help class-name usage: class-name [-h]  
returns the class name of the part class this part  
optional arguments: -h, -help show this help message and exit
2. XM-B6J7-0604: help dsa-info usage: dsa-info [-h]  
returns lsb<sub>val</sub> and number of bits  
optional arguments: -h, -help show this help message and exit

3. XM-B6J7-0604: help get-attn usage: get-attn [-h]  
returns the current attenuation setting in dB NOTE: this only reads from the X-MW controller, not the part  
optional arguments: -h, -help show this help message and exit
4. XM-B6J7-0604: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
5. XM-B6J7-0604: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit
6. XM-B6J7-0604: help list-commands usage: list-commands [-h]  
lists all the commands available on the part  
optional arguments: -h, -help show this help message and exit
7. XM-B6J7-0604: help max-attn usage: max-attn [-h]  
sets the attenuation to maximum value  
optional arguments: -h, -help show this help message and exit
8. XM-B6J7-0604: help min-attn usage: min-attn [-h]  
sets the attenuation to minimum value  
optional arguments: -h, -help show this help message and exit
9. XM-B6J7-0604: help part-info usage: part-info [-h] [-cat-abrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
returns info on the part this control screen was designed for  
optional arguments: -h, -help show this help message and exit -cat-abrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type

10. XM-B6J7-0604: help set-attn usage: set-attn [-h] <float>  
 sets the attenuation in dB  
 positional arguments: <float> attenuation in dB  
 optional arguments: -h, -help show this help message and exit
11. XM-B6J7-0604: help set-bits usage: set-bits [-h] <number>  
 sets the bit values with an non-negative integer <number>  
 positional arguments: <number>  
 optional arguments: -h, -help show this help message and exit
12. XM-B6J7-0604: help virt-write usage: virt-write [-h] [-i <event type>]  
 [-f <bool>]  
 instead of writting to spi bus, instead write to a virtual spi bus and  
 return the log output  
 optional arguments: -h, -help show this help message and exit -i  
 <event type> If specified, include only <event type> in the results.  
 This can be specified more than once -f <bool>, -only-final <bool>  
 shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
13. XM-B6J7-0604: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit

## 1.83 part: XM-B6K4-0819

### 1.83.1 XM-B6K4-0819: help

list of commands: attr<sub>info</sub>/attr-info [-h] [-r] [-o] [-t] <attr name> gets info of  
 the specific attribute class-name [-h] returns the class name of the part class  
 this part direct<sub>write</sub>/direct-write [-h] [-v] [-i <event type>] [data] writes the  
 data in 'numWriteData' to the part

NOTE: this command only works on parts where 'numWriteData' is de-  
 fined dump<sub>regs</sub>/dump-regs [-h] [register] returns a list of registers as a new-  
 line separated list of hexadecimal values get<sub>attr</sub>/get-attr [-h] <name> gets  
 the value of attribute <name> get<sub>names</sub>/get-names [-h] returns the list of  
 named widgets (useful for the show-tab and show-named-tab commands)  
 has-commands [-h] commands [commands ...] returns a list of lines each  
 look like '<command>: <is<sub>present</sub>>' has<sub>attr</sub>/has-attr [-h] <name> returns

attribute exists as 'True' or does not exist as 'False' help [-h] [<command>]  
 shows this help list-commands [-h] lists all the commands available on the  
 part list\_attr/list-attr [-h] [-on-grid <grid name>] [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info) part-info [-h] [-cat-abrev]  
 [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the  
 part this control screen was designed for set\_attr/set-attr [-h] [-v] <name>  
 <value> sets the value of attribute <name> to <value>. <value> must be  
 a valid floating point or integer set\_reg/set-reg [-h] [-c] [-t] <value> assigns  
 <value> to the appropriate register based on how the part would interpret  
 <value> show\_namedtab/show-named-tab [-h] <tab title> shows tab with ti-  
 tle <tab title> show\_tab/show-tab [-h] <tab> shows tab numbered <tab> it  
 <tab> startswith a digit shows tab with attribute name <tab> otherwise  
 virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus,  
 instead write to a virtual spi bus and return the log output write [-h] writes  
 the data to the device

1. XM-B6K4-0819: help attr\_info usage: attr\_info [-h] [-r] [-o] [-t] <attr  
 name>  
 gets info of the specific attribute  
 positional arguments: <attr name> name of attribute  
 optional arguments: -h, -help show this help message and exit -r, -  
 range shows the range of values allowed for the attribute -o, -options  
 shows the list of options available for the attribute -t, -type shows the  
 type of the attribute
2. XM-B6K4-0819: help class-name usage: class-name [-h]  
 returns the class name of the part class this part  
 optional arguments: -h, -help show this help message and exit
3. XM-B6K4-0819: help direct\_write usage: direct\_write [-h] [-v] [-i <event  
 type>] [data]  
 writes the data in 'numWriteData' to the part NOTE: this command  
 only works on parts where 'numWriteData' is defined  
 positional arguments: data set 'numWriteData' to [data] if specified  
 (original value of 'numWriteData' will be restored after writing)  
 optional arguments: -h, -help show this help message and exit -v, -  
 virt-write instead of writing to SPI, writes to virtual spi and returns  
 the write log -i <event type> If specified, include only <event type>

in the results. This can be specified more than once (see virt-write command)

4. XM-B6K4-0819: help dump<sub>regs</sub> usage: dump<sub>regs</sub> [-h] [register]  
returns a list of registers as a newline separated list of hexadecimal values  
positional arguments: register if defined, the command will only output the value of register [register]  
optional arguments: -h, -help show this help message and exit
5. XM-B6K4-0819: help get<sub>attr</sub> usage: get<sub>attr</sub> [-h] <name>  
gets the value of attribute <name>  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
6. XM-B6K4-0819: help get<sub>names</sub> usage: get<sub>names</sub> [-h]  
returns the list of named widgets (useful for the show-tab and show-named-tab commands)  
optional arguments: -h, -help show this help message and exit
7. XM-B6K4-0819: help has-commands usage: has-commands [-h] commands [commands ...]  
returns a list of lines each look like '<command>: <ispresent>'  
positional arguments: commands  
optional arguments: -h, -help show this help message and exit
8. XM-B6K4-0819: help has<sub>attr</sub> usage: has<sub>attr</sub> [-h] <name>  
returns attribute exists as 'True' or does not exist as 'False'  
positional arguments: <name> name of the attribute  
optional arguments: -h, -help show this help message and exit
9. XM-B6K4-0819: help help usage: help [-h] [<command>]  
shows this help  
positional arguments: <command> the command you want to see the help of  
optional arguments: -h, -help show this help message and exit

10. XM-B6K4-0819: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
11. XM-B6K4-0819: help list\_attr usage: list\_attr [-h] [-on-grid <grid name>]  
 [-titles] [-readonly-status]  
 lists all attributes (type help list-attr for more info)  
 optional arguments: -h, -help show this help message and exit -on-grid  
 <grid name> lists only attributes on the grid named <grid name> -  
 titles show the titles of the attributes -readonly-status show read-only  
 status of the attributes
12. XM-B6K4-0819: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-  
 name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-  
 abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
13. XM-B6K4-0819: help set\_attr usage: set\_attr [-h] [-v] <name> <value>  
 sets the value of attribute <name> to <value>. <value> must be a  
 valid floating point or integer  
 positional arguments: <name> attribute name of the data <value>  
 new attribute value of the data  
 optional arguments: -h, -help show this help message and exit -v, -  
 value sets the option data by the option value instead of option title
14. XM-B6K4-0819: help set\_reg usage: set\_reg [-h] [-c] [-t] <value>  
 assigns <value> to the appropriate register based on how the part  
 would interpret <value>  
 positional arguments: <value> the value of register in hexadecimal  
 optional arguments: -h, -help show this help message and exit -c,  
 -cancel-recalc re-calculate data after setting register in X-MW Con-  
 troller -t, -track-change track and return a list of affected attributes  
 and whether or not they changed
15. XM-B6K4-0819: help show\_namedtab usage: show\_namedtab [-h] <tab ti-  
 tle>

shows tab with title <tab title>

positional arguments: <tab title> title that appears on the tab

optional arguments: -h, -help show this help message and exit

16. XM-B6K4-0819: help show<sub>tab</sub> usage: show<sub>tab</sub> [-h] <tab>

shows tab numbered <tab> it <tab> startswith a digit shows tab with attribute name <tab> otherwise

positional arguments: <tab> attribute name of the tab or the tab number

optional arguments: -h, -help show this help message and exit

17. XM-B6K4-0819: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]

instead of writting to spi bus, instead write to a virtual spi bus and return the log output

optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>

18. XM-B6K4-0819: help write usage: write [-h]

writes the data to the device

optional arguments: -h, -help show this help message and exit

## 1.84 part: XM-B8D7-0404

### 1.84.1 XM-B8D7-0404: help

list of commands: has-commands [-h] commands [commands ...] returns a list of lines each look like '<command>: <is<sub>present</sub>>' help [-h] [<command>] shows this help list-commands [-h] lists all the commands available on the part part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type] returns info on the part this control screen was designed for virt-write [-h] [-i <event type>] [-f <bool>] instead of writting to spi bus, instead write to a virtual spi bus and return the log output write [-h] writes the data to the device

1. XM-B8D7-0404: help class-name usage: class-name [-h]

returns the class name of the part class this part

- optional arguments: -h, -help show this help message and exit
2. XM-B8D7-0404: help has-commands usage: has-commands [-h] commands [commands ...]  
 returns a list of lines each look like '<command>: <ispresent>'  
 positional arguments: commands  
 optional arguments: -h, -help show this help message and exit
  3. XM-B8D7-0404: help help usage: help [-h] [<command>]  
 shows this help  
 positional arguments: <command> the command you want to see the help of  
 optional arguments: -h, -help show this help message and exit
  4. XM-B8D7-0404: help list-commands usage: list-commands [-h]  
 lists all the commands available on the part  
 optional arguments: -h, -help show this help message and exit
  5. XM-B8D7-0404: help part-info usage: part-info [-h] [-cat-abbrev] [-cat-name] [-xm-pn] [-mfg-pn] [-mfg-name] [-io-type]  
 returns info on the part this control screen was designed for  
 optional arguments: -h, -help show this help message and exit -cat-abbrev -cat-name -xm-pn -mfg-pn -mfg-name -io-type
  6. XM-B8D7-0404: help virt-write usage: virt-write [-h] [-i <event type>] [-f <bool>]  
 instead of writing to spi bus, instead write to a virtual spi bus and return the log output  
 optional arguments: -h, -help show this help message and exit -i <event type> If specified, include only <event type> in the results. This can be specified more than once -f <bool>, -only-final <bool> shows only final value of each pin change for IO<sub>PIN</sub> not valid for IO<sub>SPI</sub>
  7. XM-B8D7-0404: help write usage: write [-h]  
 writes the data to the device  
 optional arguments: -h, -help show this help message and exit