Command	Description			
<imx -h=""></imx>	Help me!			
<imx -s=""></imx>	Enables UART interface. Every data will be forwarded to uart interface, enter <imx -a=""> for closing interface.</imx>	1		
	RESPONSE: SUCCESS: "Serial interface selected" INVALID: "unknown command"			
<imx -i=""></imx>	Enables I2C interface.	2		
	RESPONSE: SUCCESS: "I2C interface selected" INVALID: "unknown command"			
<imx -p=""></imx>	Enables SPI interface. Every data will be forwarded to spi interface, enter <imx -a=""> for closing interface.</imx>	3		
	RESPONSE: SUCCESS: "SPI interface selected" INVALID: "unknown command"			
<imx -a=""></imx>	Close the communication interface previosly selected with <imx -s=""> <imx -i=""> <imx -p="">. SUCCESS: "XXX interface closed" INVALID1: "unknown command" INVALID2: "No interface selected"</imx></imx></imx>			
<ser -bx=""></ser>	Baudrate selections for UART interface: X=0 , baudrate 1200 X=1 , baudrate 4800 X=2 , baudrate 9600 X=3 , baudrate 19200 X=4 , baudrate 19200 X=5 , baudrate 19200 X=6 , baudrate 19200 Default or wrong parameter: 9600			
	RESPONSE: SUCCESS: "Serial baudrate set" INVALID1: "unknown command" INVALID2: "Error - interface must be closed"			
<spi –ah=""></spi>	Set SPI NSS pin active high. Default: NSS active low. RESPONSE: SUCCESS: "SPI NSS active high" INVALID1: "unknown command"			

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<spi –al=""></spi>	Set SPI NSS pin active low.			
	Default: NSS active low.			
	RESPONSE:			
	SUCCESS: "SPI NSS active low"			
	INVALID1: "unknown command"			
<i2c -a="" 0xxx=""></i2c>	Set Slave address.	4		
	RESPONSE:			
	SUCCESS: "Slave Address set"			
	INVALID1: "unknown command"			
<i2c -mt=""></i2c>	Generation of Start/repeat start condition + address			
\12C -111C	will be send in write mode.			
	MILE SO SOME IN MILES MISSES			
	RESPONSE:			
	SUCCESS: "Sending address in write mode"			
	INVALID: "unknown command"			
		-		
<pre><i2c -mr=""> Generation of Start/repeat start condition + a</i2c></pre>				
	will send in read mode.			
	RESPONSE:			
	SUCCESS: "Sending address in read mode"			
	INVALID: "unknown command"			
<i2c -w="" 0xxx=""></i2c>	Byte Write request.			
	XX value in hexadecimal format [00 - FF]			
	RESPONSE:			
	SUCCESS: "Byte write enqueued"			
	INVALID: "unknown command"			
<i2c -r=""></i2c>	Byte read request.			
1.20 17				
	RESPONSE:			
	SUCCESS: "Byte read enqueued"			
	INVALID: "unknown command"			
<i20 ~=""></i20>	Get i2c commands in the queue.			
<i2c -q=""></i2c>	det 110 communus in the queue.			
	RESPONSE:			
	SUCCESS: Output the i2c commands queue			
	INVALID: "unknown command"			
4:0 :				
<i2c -d=""></i2c>	Delete all i2C commands in the queue.			
	DECDONCE.			
	RESPONSE:			
	SUCCESS: "Queue free"			
	INVALID: "unknown command"			
<i2c -x=""></i2c>	Starts i2c transfer.			
	RESPONSE:			
	SUCCESS: "Transfer Success" + byte read in HEX format			
	if present.			
	<pre>INVALID: "Transfer Failure" + ERROR</pre>			
		•		

ERROR1: "Bus Busy"	
ERROR2: "Timeout"	
ERROR3: "Address Nack"	
ERROR4: "General Error"	

NOTE1		
INTERFACE	LPUART2	
IMXRT_1020 PINS	GPIO_AD_B1_09 (UART RX)	
	GPIO_AD_B1_08 (UART TX)	
ARDUINO INTERFACE PINS	J17 pin 1 (UART RX)	
	J17 pin 2 (UART TX)	



RACCOMANDATIONS	Put at the output of each pin a series		
	resistor of at least 100 Ohm.		



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NOTE2		
INTERFACE	LPI2C1	
IMXRT_1020 PINS	GPIO_AD_B1_15 (SDA)	
	GPIO_AD_B1_14 (SCL)	
ARDUINO INTERFACE PINS	J18 pin 5 (SDA)	
	J18 pin 6 (SCL)	

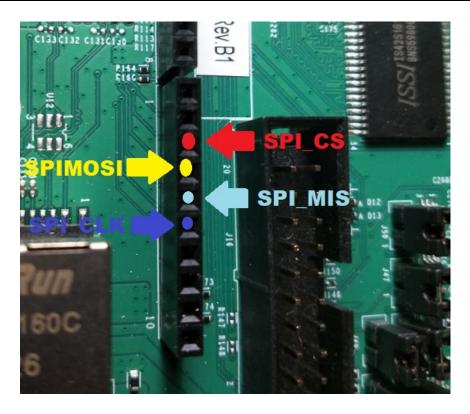


RACCOMANDATIONS	Pull UP resistor must be external.

The speed of I2C bus for the current firmware release cannot be change and is fixed to 100 kHz.



NOTE3		
INTERFACE	LPSPI1	
IMXRT_1020 PINS	GPIO_AD_B0_15 (SDA)	
	GPIO_AD_BO_11 (SCL)	
	GPIO_AD_BO_12 (SDA)	
	GPIO_AD_BO_13 (SCL)	
ARDUINO INTERFACE PINS	J18 pin 5 (SDA)	
	J18 pin 6 (SCL)	



RACCOMANDATIONS	Put at the output of each pin a series	
	resistor of at least 100 Ohm.	

lave address must be set following the table.						
X	MSB					LSB
0	A6	A5	A4	A3	A2	A1

REVISION HISTORY				
VERSION	REVISION DATE	COMMENTS		
1	04/06/2021	First Release		

