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This document provides additional assistance with wiring your Extron IP Link Pro Control Processor to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific IP Link Pro Control Processor or the documentation supplied by the manufacturer of the controlled device.

For more information on using Global Scripter Modules, refer to the "Guide to Using Scripter Modules" document.

Device Specifications

Device Type: Other Manufacturer: Shure Firmware Version: N/A

Model(s): ULX-D, ULX-D1, ULX-D2, QLX-D, ULX-D6, ULX-D8, ULX-D4, ULX-D4D, ULX-D4Q

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scripter Version
3.16.0000-b013	2.17.0.15

Version History

Module Version	Date	Notes
1_1_5_0	10/25/2022	Removed error message for BatteryBars status when microphone is turned off.
1_1_4_0	9/21/2022	Fixed GroupandChannel and MeterRate control commands.
1_1_2_0	9/17/2019	Added statuses for Antenna, AntennaRFLevel and AudioLevel.
1_1_1_0	4/23/2019	Added InterferenceDetection, EncryptionMismatchWarning, and ChannelName commands.
1_1_0_0	9/25/2018	Added MeterRate command.
1_0_5_0	6/4/2018	Fixed BatteryBars status when transmitter is off or using AA batteries.
1_0_4_0	4/4/2018	Initial Version

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Module Notes

- Unidirectional variable must be set to 'True' if status is not required. Default value is 'False'. Example: InterfaceName.Unidirectional = 'True'
- connectionCounter variable must be set to the number of queries that will be sent to the device before displaying 'Disconnected' if no response is received. Default value is 15.

 Example: InterfaceName.connectionCounter = 5

Supported Class and Example

EthernetClass

InterfaceName = ModuleName.EthernetClass('192.168.254.254', 2202, Model='ULX-D')

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Control Commands

Format with Qualifier:

InterfaceName.Set(Command, Value, {'Qualifier Key': 'Qualifier Value'})

Format with Qualifier:

InterfaceName.Set(Command, Value)

Command	Value	Value	Value	
AudioMute 1	'On'	'Off'	'Toggle'	
Qualifier Key	Qualifier Value	Qualifier Value		
'Channel'	'1' - '4'	'All'		
# AudioMute example				
	AudioMute', 'On', {'C	hannel': '1'})		
Command	Value			
Frequency	450 – 950			
Qualifier Key	Qualifier Value	Qualifier Value		
'Channel'	'1' – '4'	'All'		
# Frequency example InterfaceName.Set('	Frequency', 950, {'Ch	annel': '1'})		
Command	Value	ue2		
GroupandChannel	None			
Qualifier Key	Qualifier Value			
'Receiver Channel'	'1' - '4'			
Qualifier Key	Oualifier Value			
'Group'	1 – 99			
Qualifier Key	Qualifier Value			
'Channel'	1 – 99			
	# GroupandChannel example InterfaceName.Set('GroupandChannel', None, {'Receiver Channel': '1', 'Group': 99, 'Channel':			
Command	Value			
MeterRate	0 – 99999			
Qualifier Key	Qualifier Value	Qualifier Value		
'Channel' ²	'1' - '4'	'All'		
# MeterRate example InterfaceName.Set('MeterRate', 99999, {'Channel': '1'})				
Command	Value			
Volume	0 to 60 in steps of 1	_		
Qualifier Key	Qualifier Value	Qualifier Value		
'Channel'	'1' - '4'	'All'		
<pre># Volume example InterfaceName.Set('Volume', 60, {'Channel': '1'})</pre>				

¹ Not available on the QLX-D model.

Rev. B1

² Any value less than 100 milliseconds entered will be 0

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Status Available

For all commands, call Update to receive the latest status. ConnectionStatus, AntennaRFLevelStatus, AntennaStatus, AudioLevelStatus, and MeterRate do not support the Update function. ConnectionStatus is triggered by the device providing a successful response to other Update function calls.

Format with Qualifier:

```
InterfaceName.Update(Command, {'Qualifier Key': 'Qualifier Value'})
   Value = InterfaceName.ReadStatus(Command, {'Qualifier Key': 'Qualifier Value'})
   InterfaceName.SubscribeStatus(Command, {'Qualifier Key': 'Qualifier Value'},
FeedbackHandler)
```

FeedbackHandler will be called only when the specified qualifier gets a new status.

Format without Qualifier:

```
InterfaceName.Update(Command)
Value = InterfaceName.ReadStatus(Command)
InterfaceName.SubscribeStatus(Command, None, FeedbackHandler)
FeedbackHandler will be called when any qualifier gets a new status.
```

Command	Value		
AntennaRFLevelStatus	-128 - -13		
	Oualifier Value		
Qualifier Key	'1' - '4'		
'Channel'	= ·		
# AntennaRFLevelStatu			11. 1411)
		nnaRFLevelStatus', {'Chan RFLevelStatus', None, Fee	
Command	Value	Value	Value
AntennaStatus	'A on, B off'	'A off, B on'	'A off, B off'
Antennastatus	'None'	A 011, B 011	A 011, B 011
- 116			
Qualifier Key	Qualifier Value		
'Channel'	'1' - '4'		-
	.ReadStatus('Ante	nnaStatus', {'Channel': ':	
Command	Value	Status', None, FeedbackHa	nuter)
AudioLevelStatus	0 – 50		
Qualifier Key	Qualifier Value		
'Channel'	'1' – '4'		
# AudioLevelStatus ex			
		oLevelStatus', {'Channel'	
Command	Value	velStatus', None, Feedbac	Value
AudioMute ¹	'On'	Value ' Off '	
			'Toggle'
Qualifier Key	Qualifier Value	Qualifier Value	
'Channel'	'1' - '4'	'All'	
# AudioMute example		71 14133	
<pre>InterfaceName.Update('AudioMute', {'Channel': '1'}) Value = InterfaceName.ReadStatus('AudioMute', {'Channel': '1'})</pre>			
InterfaceName.SubscribeStatus('AudioMute', None, FeedbackHandler)			
Command	Value	indie, recubackilaliule	
BatteryBars	0 – 5		
Qualifier Key	Oualifier Value		
'Channel'	'1' - '4'		
	<u> </u>	<u> </u>	
<pre># BatteryBars example InterfaceName.Update('BatteryBars', {'Channel': '1'})</pre>			
			3)
<pre>Value = InterfaceName.ReadStatus('BatteryBars', {'Channel': '1'})</pre>			

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InterfaceName.SubscribeStatus('BatteryBars', None, FeedbackHandler)			
Command	Value		
BatteryChargeStatus	0 – 100		
Qualifier Key	Qualifier Value		
'Channel'	'1' – '4'		
# BatteryChargeStatus	example		
	'BatteryChargeStatus', {'Channel': '1'})		
	ReadStatus('BatteryChargeStatus', {'Channel': '1'})		
	peStatus('BatteryChargeStatus', None, FeedbackHandler)		
Command	Value		
BatteryRemainingTime ³	'String'		
Qualifier Key	Qualifier Value		
'Channel'	'1' – '4'		
# BatteryRemainingTime			
	'BatteryRemainingTime', {'Channel': '1'})		
	ReadStatus('BatteryRemainingTime', {'Channel': '1'})		
Command	peStatus('BatteryRemainingTime', None, FeedbackHandler) Value		
ChannelName	'String'		
Qualifier Key	Qualifier Value		
'Channel'	'1' – '4'		
# ChannelName example			
	'ChannelName', {'Channel': '1'})		
	.ReadStatus('ChannelName', {'Channel': '1'}) peStatus('ChannelName', None, FeedbackHandler)		
Command	Value		
ChannelStatus ⁴	1 – 99		
Qualifier Key	Qualifier Value '1' - '4'		
'Channel'	<u> </u>		
# ChannelStatus example InterfaceName.Update('ChannelStatus', {'Channel': '1'})			
	ReadStatus('ChannelStatus', {'Channel': '1'})		
	peStatus('ChannelStatus', None, FeedbackHandler)		
Command	Value Value		
ConnectionStatus	'Connected' 'Disconnected'		
# ConnectionStatus ex	-		
Value = InterfaceName	ReadStatus('ConnectionStatus')		
InterfaceName.Subscri	peStatus('ConnectionStatus', None, FeedbackHandler)		
Command	Value Value		
EncryptionMismatchWarn	'On' 'Off'		
ing			
Qualifier Key	Qualifier Value		
'Channel'	'1' - '4'		
# EncryptionMismatchWa			
InterfaceName.Update('EncryptionMismatchWarning', {'Channel': '1'})			
<pre>Value = InterfaceName.ReadStatus('EncryptionMismatchWarning', {'Channel': '1'})</pre>			
InterfaceName.Subscri	peStatus('EncryptionMismatchWarning', None, FeedbackHandler)		
Command	Value		
FirmwareVersion	'String'		
# FirmwareVersion exa			
	<pre>InterfaceName.Update('FirmwareVersion')</pre>		
Value = InterfaceName.ReadStatus('FirmwareVersion')			
	peStatus('FirmwareVersion', None, FeedbackHandler)		
Command	Value		
Frequency	450 – 950		

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0 110 17	0 1:6: 1/ 1	0 1:6: 1/1	
Qualifier Key	Qualifier Value '1' – '4'	Qualifier Value	
'Channel'	1'-4'	'All'	-
# Frequency example	'Frequency', {'Channel':	1111)	
	ReadStatus('Frequency',		
	beStatus('Frequency', No		
Command	Value	,	
GroupStatus ⁴	1 – 99		
Qualifier Key	Qualifier Value		
'Channel'	'1' - '4'		
# GroupStatus example		-	
	'GroupStatus', {'Channel	': '1'})	
	.ReadStatus('GroupStatus		
	beStatus('GroupStatus',		
Command	Value	Value	
InterferenceDetection	'None'	'Critical'	
Qualifier Key	Qualifier Value		
'Channel'	'1' – '4'		
# InterferenceDetection		(10)	
	'InterferenceDetection',		
	.ReadStatus('Interferenc beStatus('InterferenceDe		
Command	Value	cootaon , none, recubac	
MeterRate ⁵	0 – 99999		
Qualifier Key	Qualifier Value	Qualifier Value	
'Channel'	'1' - '4'	'All'	
# MeterRate example	- '	,	
	.ReadStatus('MeterRate',	{'Channel': '1'})	
	beStatus('MeterRate', No		
Command	Value	Value	Value
TransmitterMuteButtonSt	'Pressed'	'Released'	'Unknown'
atus ²			
Qualifier Key	Qualifier Value		
'Channel'	'1' – '4'		
# TransmitterMuteButto	onStatus example		
	'TransmitterMuteButtonSt		
	.ReadStatus('Transmitter		
	beStatus('TransmitterMut		·
Command	Value	Value	Value
TransmitterMuteStatus ²	'On'	'Off'	'Unknown'
Qualifier Key	Qualifier Value		
'Channel'	'1' - '4'		
# TransmitterMuteState	us example 'TransmitterMuteStatus',	('Channel', 1411)	
	ReadStatus('Transmitter.		. '1'}\
	beStatus('TransmitterMut		
Command	Value	Value	Value
TransmitterPowerSourceS	'Battery'	'External'	'Unknown'
tatus			
Qualifier Key	Qualifier Value		
'Channel'	'1' - '4'		
# TransmitterPowerSou			
	'TransmitterPowerSourceS	tatus', {'Channel': '1'	'})
Value = InterfaceName	.ReadStatus('Transmitter	PowerSourceStatus', {'C	Channel': '1'})
InterfaceName.Subscri	beStatus('TransmitterPow	erSourceStatus', None,	FeedbackHandler)
Command	Value	Value	Value

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TransmitterRFPower	'Low'	'Normal'	'High'	
	'Unknown'		_	
Qualifier Key	Qualifier Value			
'Channel'	'1' – '4'			
# TransmitterRFPower				
Value = InterfaceName	<pre>InterfaceName.Update('TransmitterRFPower', {'Channel': '1'}) Value = InterfaceName.ReadStatus('TransmitterRFPower', {'Channel': '1'}) InterfaceName.SubscribeStatus('TransmitterRFPower', None, FeedbackHandler)</pre>			
Command	Value	Value	Value	
TransmitterType	'ULXD 1'	'ULXD 2'	'ULXD 6'	
	'ULXD 8'	'QLXD 1'	'QLXD 2'	
	'Unknown'			
Qualifier Key	Qualifier Value			
'Channel'	'1' – '4'			
<pre># TransmitterType example InterfaceName.Update('TransmitterType', {'Channel': '1'}) Value = InterfaceName.ReadStatus('TransmitterType', {'Channel': '1'}) InterfaceName.SubscribeStatus('TransmitterType', None, FeedbackHandler)</pre>				
Command	Value			
Volume	0 to 60 in steps of	1		
Qualifier Key	Qualifier Value	Qualifier Value		
'Channel'	'1' – '4'	'All'		
<pre># Volume example InterfaceName.Update('Volume', {'Channel': '1'}) Value = InterfaceName.ReadStatus('Volume', {'Channel': '1'}) InterfaceName.SubscribeStatus('Volume', None, FeedbackHandler)</pre>				

¹ Not available on the QLX-D model.

² Only available on ULX-D6 and ULX-D8

³ The 'String' is in this format, HH:MM (Hours:Minutes). If the remaining time is unknown, then the 'String' will contain 'Unknown'.

⁴ Calling Update method with either ChannelStatus or GroupStatus will provide statuses for both commands.

⁵ This status only updates via unsolicited responses. If no changes are made, the status will not update.

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Network communication

When configuring the Ethernet module, be sure device settings match those of the Global Scripter ethernet interface.

Port Type: Ethernet (TCP)

Default Port: 2202

Logon Credentials

No

Supported:

Multi-Connection Undetermined

Capabilities:

Port Changeability: Yes

Ethernet Module Configuration Description

Please refer to user manual for settings and changes to the network communication

Notes for the Device

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Appendix A. Set Commands

Audio Mute Off Channel 1	< SET 1 AUDIO_MUTE OFF >
Audio Mute Off Channel 4	<pre></pre>
Audio Mute Off Channel All	< SET 0 AUDIO_MUTE OFF >
Audio Mute On Channel 1	< SET 1 AUDIO MUTE ON >
Audio Mute On Channel 4	<pre></pre>
Audio Mute On Channel All	<pre></pre>
Audio Mute Toggle Channel 1	<pre></pre>
Audio Mute Toggle Channel 4	<pre></pre>
Audio Mute Toggle Channel All	<pre></pre>
Frequency 450 Channel 1	< SET 1 FREQUENCY 450000 >
Frequency 450 Channel 4	< SET 4 FREQUENCY 450000 >
Frequency 450 Channel All	< SET 0 FREQUENCY 450000 >
Frequency 950 Channel 1	< SET 1 FREQUENCY 950000 >
Frequency 950 Channel 4	< SET 4 FREQUENCY 950000 >
Frequency 950 Channel All	< SET 0 FREQUENCY 950000 >
Group and Channel None Receiver Channel 1 Group	< SET 1 GROUP_CHAN 01,01 >
1 Channel 1	, , , , , , , , , , , , , , , , , , ,
Group and Channel None Receiver Channel 1 Group	< SET 1 GROUP CHAN 01,99 >
1 Channel 99	<u>-</u>
Group and Channel None Receiver Channel 1 Group	< SET 1 GROUP_CHAN 99,01 >
99 Channel 1	
Group and Channel None Receiver Channel 1 Group	< SET 1 GROUP_CHAN 99,99 >
99 Channel 99	
Group and Channel None Receiver Channel 4 Group	< SET 4 GROUP_CHAN 01,01 >
1 Channel 1	
Group and Channel None Receiver Channel 4 Group	< SET 4 GROUP_CHAN 01,99 >
1 Channel 99	
Group and Channel None Receiver Channel 4 Group	< SET 4 GROUP_CHAN 99,01 >
99 Channel 1	
Group and Channel None Receiver Channel 4 Group	< SET 4 GROUP_CHAN 99,99 >
99 Channel 99	. CET 1 METER DATE 00000
Meter Rate 0 Channel 1	< SET 1 METER_RATE 00000 > < SET 4 METER RATE 00000 >
Meter Rate 0 Channel 4	
Meter Rate 0 Channel All	< SET 0 METER_RATE 00000 >
Meter Rate 99999 Channel 1	< SET 1 METER_RATE 99999 >
Meter Rate 99999 Channel 4	< SET 4 METER_RATE 99999 > < SET 0 METER RATE 99999 >
Meter Rate 99999 Channel All	< SET 1 AUDIO_GAIN 000 >
Volume 0 Channel 1	< SET 4 AUDIO GAIN 000 >
Volume 0 Channel 4	< SET 0 AUDIO_GAIN 000 >
Volume 0 Channel All	< SET 1 AUDIO_GAIN 060 >
Volume 60 Channel 1	< SET 4 AUDIO_GAIN 060 >
Volume 60 Channel 4	
Volume 60 Channel All	< SET 0 AUDIO_GAIN 060 >

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Appendix B. Update Commands

Audio Mute Channel 4 Set 1 Battery Bars Channel 1 Battery Bars Channel 1 Set 1 Batt_Bars > Battery Bars Channel 4 Set 1 Batt_Bars > Battery Charge Status Channel 4 Set 1 Batt_CHARGE > Battery Remaining Time Channel 1 Set 1 Batt_Run_TIME > Channel Name Channel 1 Channel Name Channel 1 Set 1 CHAN_NAME > Channel Name Channel 4 Channel Name Channel 4 Channel Name Channel 4 Set 1 CHAN_NAME > Channel Name Channel 4 Set 1 CHAN_NAME > Channel Name Channel 4 Set 1 Set 2 CHAN_NAME > Channel Name Channel 4 Set 1 Set 3 CHAN_NAME > Encryption Mismatch Warning Channel 1 Encryption Mismatch Warning Channel 4 Set 1 Set 4 ENCRYPTION_WARNING > Frequency Channel 1 Set 1 Frequency Channel 4 Get 1 Set 4 FREQUENCY > Group Status Channel 4 Get 1 GROUP_CHAN > Interference Detection Channel 4 Interference Detection Channel 4 Set 1 Requency Channel 4 Get 1 Republic Channel 4 Transmitter Mute Button Status Channel 4 Set 1 Tx_MUTe_ButTon_Status > Transmitter Mute Status Channel 4 Set 1 Tx_MUTe_Status > Transmitter Power Source Status Channel 4 Transmitter Power Channel 4 Get 1 Tx_Fower_Source > Transmitter Type Channel 4 Get 1 Tx_Fower_Source Status Channel 4 Get	Audio Mute Channel 1	< GET 1 AUDIO_MUTE >
Battery Bars Channel 1		_
Battery Bars Channel 4		_
Battery Charge Status Channel 1 Battery Charge Status Channel 4 GET 1 BATT_CHARGE > Battery Remaining Time Channel 1 GET 1 BATT_RUN_TIME > Battery Remaining Time Channel 4 GET 4 BATT_RUN_TIME > Battery Remaining Time Channel 4 GET 1 CHAN_NAME > Channel Name Channel 1 Channel Name Channel 1 Channel Name Channel 4 GET 1 CHAN_NAME > Channel Name Channel 4 Channel Name Channel 4 Channel Name Channel 4 GET 1 CHAN_NAME > Channel Name Channel 4 GET 2 CHAN_NAME > Encryption Mismatch Warning Channel 1 GET 1 ENCRYPTION_WARNING > Firmware Version Frequency Channel 1 GET 1 FREQUENCY > Frequency Channel 1 GET 1 FREQUENCY > GOUD Status Channel 4 GET 2 GROUP_CHAN > GOUD Status Channel 4 GET 3 GROUP_CHAN > Interference Detection Channel 4 GET 4 RF_INT_DET > Interference Detection Channel 4 GET 4 RF_INT_DET > Transmitter Mute Button Status Channel 1 GET 1 TX_MUTE_BUTTON_STATUS > Transmitter Mute Button Status Channel 4 GET 4 TX_MUTE_BUTTON_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_MUTE_STATUS > Transmitter Power Source Status Channel 1 GET 1 TX_POWER_SOURCE > Transmitter Power Channel 4 GET 4 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter FP Ower Channel 4 GET 1 TX_POWER_SOURCE > Transmitter Type Channel 4 GET 1 TX_TYPE >	·	_
Battery Charge Status Channel 4 GET 4 BATT_CHARGE > Battery Remaining Time Channel 1 GET 1 BATT_RUN_TIME > Battery Remaining Time Channel 4 Channel Name Channel 1 Channel Name Channel 1 Channel Name Channel 4 Encryption Mismatch Warning Channel 1 Encryption Mismatch Warning Channel 4 Encryption Marning > Encryption Mismatch Warning > Encryption Mismatch Warning Channel 4 Encryption Marning > Encryption Mismatch Warning Channel 4 Encryption Marning > Encryption Mismatch Warning Channel 4 Encryption Marning > Encryption Marning > Encryption Mismatch Warning Channel 4 Encryption Marning * Encryption Mismatch Varning Author Naming > Encryption Mismatch Varning Channel 4 Encryption Marning * Encryption Mismatch Varning Channel 4 Encryption Marning * Encryption Marning * Encryption Marning * Encryption Marning Channel A	·	_
Battery Remaining Time Channel 1	•	
Battery Remaining Time Channel 4 Channel Name Channel 1 Channel Name Channel 4 Council Channel Name Channel A Council Channel Name Channel A Council Channel Name Channel Name Name Name Name Name Name Name Name		_
Channel Name Channel 1 Channel Name Channel 4 Channel Name Channel 4 Ceget 4 CHAN_NAME > Encryption Mismatch Warning Channel 1 Encryption Mismatch Warning Channel 4 Ceget 4 ENCRYPTION_WARNING > Encryption Mismatch Warning Channel 4 Ceget 4 ENCRYPTION_WARNING > Firmware Version Ceget FW_VER > Frequency Channel 1 Ceget 4 FREQUENCY > Frequency Channel 4 Ceget 4 FREQUENCY > Group Status Channel 1 Ceget 4 GROUP_CHAN > Ceget 4 GROUP_CHAN > Ceget 4 GROUP_CHAN > Ceget 4 RF_INT_DET > Ceget 4 TX_MUTE_BUTTON_STATUS > Ceget 4 TX_MUTE_STATUS > Ceget 4 TX_POWER_SOURCE > Ceget 4 TX_TYPE > Ceget 4 TX_TY		
Channel Name Channel 4 Encryption Mismatch Warning Channel 1 Encryption Mismatch Warning Channel 4 Encryption Marning Secure Secure Channel 4 Encryption Marning Se		
Encryption Mismatch Warning Channel 1		_
Encryption Mismatch Warning Channel 4		_
Firmware Version Frequency Channel 1 Frequency Channel 4 Group Status Channel 1 Group Status Channel 4 Group Status Channel 4 Interference Detection Channel 1 Interference Detection Channel 4 Transmitter Mute Button Status Channel 1 Transmitter Mute Status Channel 4 Get 1 TX_MUTE_BUTTON_STATUS > Transmitter Mute Status Channel 4 Transmitter Mute Status Channel 4 Get 1 TX_MUTE_BUTTON_STATUS > Transmitter Mute Status Channel 4 Get 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 Get 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 Get 1 TX_MUTE_STATUS > Transmitter Power Source Status Channel 4 Get 1 TX_POWER_SOURCE > Transmitter Power Source Status Channel 4 Get 1 TX_POWER_SOURCE > Transmitter RP Power Channel 1 Get 1 TX_RF_PWR > Transmitter RP Power Channel 4 Get 1 TX_RF_PWR > Transmitter Type Channel 1 Get 1 TX_TYPE > Transmitter Type Channel 4 Get 1 TX_TYPE > Volume Channel 1 Get 1 TX_TYPE > Volume Channel 1	Encryption Mismatch Warning Channel 1	_
Frequency Channel 1 Frequency Channel 4 Group Status Channel 1 Group Status Channel 4 Interference Detection Channel 1 Interference Detection Channel 4 Transmitter Mute Button Status Channel 4 Transmitter Mute Status Channel 4 Transmitter Mute Status Channel 4 Transmitter Mute Status Channel 4 GET 1 TX_MUTE_BUTTON_STATUS > Transmitter Mute Status Channel 1 GET 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 1 GET 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_POWER_SOURCE > Transmitter Power Source Status Channel 4 GET 1 TX_POWER_SOURCE > Transmitter RF Power Channel 1 Transmitter RF Power Channel 4 GET 1 TX_RF_PWR > Transmitter RF Power Channel 4 GET 1 TX_TYPE > Transmitter Type Channel 4 GET 1 TX_TYPE > Volume Channel 1 Volume Channel 1 VGET 1 AUDIO_GAIN >	Encryption Mismatch Warning Channel 4	
Frequency Channel 4 Group Status Channel 1 Group Status Channel 4 Interference Detection Channel 1 Interference Detection Channel 4 Transmitter Mute Button Status Channel 4 Transmitter Mute Status Channel 4 Transmitter Mute Status Channel 1 Transmitter Mute Status Channel 4 GET 1 TX_MUTE_BUTTON_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_MUTE_STATUS > Transmitter Mute Status Channel 4 GET 1 TX_MUTE_STATUS > Transmitter Power Source Status Channel 1 GET 1 TX_POWER_SOURCE > Transmitter Power Source Status Channel 4 GET 1 TX_POWER_SOURCE > Transmitter RF Power Channel 1 GET 1 TX_RF_PWR > Transmitter RF Power Channel 4 GET 1 TX_RF_PWR > Transmitter Type Channel 1 GET 1 TX_TYPE > Volume Channel 1 GET 1 AUDIO_GAIN >	Firmware Version	_
Group Status Channel 1	Frequency Channel 1	< GET 1 FREQUENCY >
Group Status Channel 4 Interference Detection Channel 1 Interference Detection Channel 4 Interference Detection Channel 1 Interference Detection Channel 1 Interference Detection Channel 1 Interference Detection Channel 4 Interference Det	Frequency Channel 4	< GET 4 FREQUENCY >
Interference Detection Channel 1	Group Status Channel 1	< GET 1 GROUP_CHAN >
Interference Detection Channel 4	Group Status Channel 4	< GET 4 GROUP_CHAN >
Transmitter Mute Button Status Channel 1	Interference Detection Channel 1	< GET 1 RF_INT_DET >
Transmitter Mute Status Channel 4	Interference Detection Channel 4	< GET 4 RF_INT_DET >
Transmitter Mute Status Channel 1	Transmitter Mute Button Status Channel 1	< GET 1 TX_MUTE_BUTTON_STATUS >
Transmitter Mute Status Channel 4	Transmitter Mute Button Status Channel 4	< GET 4 TX_MUTE_BUTTON_STATUS >
Transmitter Power Source Status Channel 1	Transmitter Mute Status Channel 1	< GET 1 TX_MUTE_STATUS >
Transmitter Power Source Status Channel 4	Transmitter Mute Status Channel 4	< GET 4 TX_MUTE_STATUS >
Transmitter RF Power Channel 1	Transmitter Power Source Status Channel 1	< GET 1 TX_POWER_SOURCE >
Transmitter RF Power Channel 4	Transmitter Power Source Status Channel 4	< GET 4 TX_POWER_SOURCE >
Transmitter Type Channel 1	Transmitter RF Power Channel 1	< GET 1 TX_RF_PWR >
Transmitter Type Channel 4	Transmitter RF Power Channel 4	< GET 4 TX_RF_PWR >
Transmitter Type Channel 4	Transmitter Type Channel 1	< GET 1 TX_TYPE >
Volume Channel 1 < GET 1 AUDIO_GAIN >		< GET 4 TX_TYPE >
Volume Channel 4 < GET 4 AUDIO_GAIN >		< GET 1 AUDIO_GAIN >
	Volume Channel 4	< GET 4 AUDIO_GAIN >