Revision: 5/4/2023

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: Display Manufacturer: NEC Firmware Version: N/A

Model(s): C750Q, C860Q

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scripter Version
3.16.0000-b013	2.19.0.48

Version History

Module Version	Date	Notes
1_2_0_0	5/4/2023	Initial Version

Revision: 5/4/2023

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
- DeviceID variable must be set accordingly. Default value is '1'. DeviceID ranges from '1' to '100',
 Broadcast, Group A, Group B, Group C, Group D, Group E, Group F, Group G, Group H, Group I, and
 Group J. If Device ID is set to 'Broadcast' or 'Group A J' status is unavailable.

 Example: InterfaceName.DeviceID = '1'
- For Ethernet, the 'keep_alive' function must be called periodically to ensure the module connection with the display remains open. The display will disconnect if it doesn't receive any commands for 15 minutes. It is recommended to call the 'keep_alive' function once every 10 minutes.

 Example: InterfaceName.keep_alive()

Supported Classes and Examples

Page 2 of 8 Rev. B1

Revision: 5/4/2023

Control Commands

Format with Qualifier:

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

Format without Qualifier:

InterfaceName.Set(Command, Value)

Command	Value	Value	Value	
AspectRatio	'Normal'	'Full'	'Wide'	
Aspectnatio			vvide	
	'Zoom'	'1:1'		
# AspectRatio ex			·	
InterfaceName.Se	t('AspectRatio', 'Normal	.')		
Command	Value	Value		
AudioMute 1	'On'	'Off'		
# AudioMute exam				
InterfaceName.Se	t('AudioMute', 'On')			
Command	Value	Value	Value	-
Input	'DisplayPort'	'HDMI 1'	'HDMI 2'	
•	'Media Player'	'Option'		
# Input example				
InterfaceName.Se	t('Input', 'DisplayPort')		
Command	Value	Value		
Power	'On'	'Off'		
# Power example				
<pre>InterfaceName.Set('Power', 'On')</pre>				
Command	Value			
Volume	0 to 100 in steps of	0 to 100 in steps of 1		
# Volume example				
InterfaceName.Set('Volume', 100)				

¹Applies to the internal speaker.

Revision: 5/4/2023

Status Available

For all commands, call Update to receive the latest status. ConnectionStatus does not support the Update function and 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	Value	Value
AspectRatio	'Normal'	'Full'	'Wide'
•	'Zoom'	'1:1'	
<pre># AspectRatio example InterfaceName.Update(Value = InterfaceName InterfaceName.Subscri</pre>	.ReadStatus('AspectF	Ratio') Lo', None, FeedbackHandle	er)
Command	Value	Value	
AudioMute ¹	'On'	'Off'	
# AudioMute example InterfaceName.Update('AudioMute') Value = InterfaceName.ReadStatus('AudioMute') InterfaceName.SubscribeStatus('AudioMute', None, FeedbackHandler)			
Command	Value	Value	
ConnectionStatus	'Connected'	'Disconnected'	
# ConnectionStatus example Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)			
Command	Value	Value	Value
Input	'DisplayPort' 'Media Player'	'HDMI 1' 'Option'	'HDMI 2'
# Input example InterfaceName.Update('Input') Value = InterfaceName.ReadStatus('Input') InterfaceName.SubscribeStatus('Input', None, FeedbackHandler) Command Power Value Value Value Value Value Value Vioff' 'Standby (Power Save)'			
# Power example InterfaceName.Update('Power') Value = InterfaceName.ReadStatus('Power') InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)			
Command	Value		
Volume	0 to 100 in steps of	1	
# Volume example InterfaceName.Update('Volume') Value = InterfaceName.ReadStatus('Volume') InterfaceName.SubscribeStatus('Volume', None, FeedbackHandler) Applies to the internal speaker			

¹Applies to the internal speaker.

Revision: 5/4/2023

Cable and Adapter Requirements

Captive Screw to Female DB9 RS-232 Serial Cable

Notes for the Device

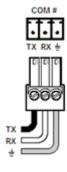
To ensure the functionality of the driver, please set the following:

- Menu → SYSTEM → EXTERNAL CONTROL → CONTROL TERMINAL → RS-232C
- Menu → PROTECT → POWER SAVE SETTINGS → QUICK START → DISABLE

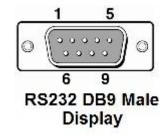
Serial communication

Port Type:RS-232Parity:NoneBaud Rate:9600Stop Bits:OneData Bits:8Flow Control:None

Pin Assignments Diagram



Signal	Main Cable	Pin	Signal
TxD	─	2	RxD
RxD		3	TxD
GND		5	GND



Revision: 5/4/2023

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: 7142

Logon Credentials

No

Supported:

Multi-Connection Undetermined

Capabilities:

Port Changeability: No

Ethernet Module Configuration Description

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

Notes for the Device

To ensure the functionality of the driver, please set the following:

- Menu → SYSTEM → EXTERNAL CONTROL → CONTROL TERMINAL → LAN
- Menu → PROTECT → POWER SAVE SETTINGS → QUICK START → DISABLE

Revision: 5/4/2023

Appendix A. Set Commands (Device ID: 1)

Aspect Ratio 1:1	\x010A0E0A\x0202700007\x03v\x0D
Aspect Ratio Full	\x010A0E0A\x0202700002\x03s\x0D
Aspect Ratio Normal	\x010A0E0A\x0202700001\x03p\x0D
Aspect Ratio Wide	\x010A0E0A\x0202700003\x03r\x0D
Aspect Ratio Zoom	\x010A0E0A\x0202700004\x03u\x0D
Audio Mute Off	\x010A0E0A\x02008D0002\x03\x0A\x0D
Audio Mute On	\x010A0E0A\x02008D0001\x03\x09\x0D
Input DisplayPort	\x010A0E0A\x020060000F\x03\x04\x0D
Input HDMI 1	\x010A0E0A\x0200600011\x03r\x0D
Input HDMI 2	\x010A0E0A\x0200600012\x03q\x0D
Input Media Player	\x010A0E0A\x0200600087\x03}\x0D
Input Option	\x010A0E0A\x020060000D\x03\x06\x0D
Power Off	\x010A0A0C\x02C203D60004\x03v\x0D
Power On	\x010A0A0C\x02C203D60001\x03s\x0D
Volume 0	\x010A0E0A\x0200620000\x03p\x0D
Volume 100	\x010A0E0A\x0200620064\x03r\x0D

Revision: 5/4/2023

Appendix B. Update Commands (Device ID: 1)

Aspect Ratio	\x010A0C06\x020270\x03\x00\x0D
Audio Mute	\x010A0C06\x02008D\x03y\x0D
Input	\x010A0C06\x020060\x03\x03\x0D
Power	\x010A0A06\x0201D6\x03t\x0D
Volume	\x010A0C06\x020062\x03\x01\x0D