

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 Scriptor Modules, refer to the "[Guide to Using Scriptor Modules](#)" document.

Device Specifications

Device Type: Switcher
Manufacturer: Inogeni
Firmware Version: N/A
Model(s): Toggle

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scriptor Version
3.17.0000-b002	2.19.0.48

Version History

Module Version	Date	Notes
1_0_2_0	7/6/2023	Initial Version

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 Classes and Examples

SerialClass
<code>InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='Toggle')</code>
SerialOverEthernetClass
<code>InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='Toggle')</code>

Control Commands

Format with Qualifier:

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

Format without Qualifier:

```
InterfaceName.Set(Command, Value)
```

Command	Value	Value
AutoSwitch	'On'	'Off'
# AutoSwitch example InterfaceName.Set('AutoSwitch', 'On')		
Command	Value	Value
ButtonLock	'On'	'Off'
# ButtonLock example InterfaceName.Set('ButtonLock', 'On')		
Command	Value	Value
GPINMode	'Pulse'	'Level'
# GPINMode example InterfaceName.Set('GPINMode', 'Pulse')		
Command	Value	Value
Input	'1' – '2'	'Off'
# Input example InterfaceName.Set('Input', '1')		
Command	Value	
Reset	None	
# Reset example InterfaceName.Set('Reset', None)		
Command	Value	
Save	None	
# Save example InterfaceName.Set('Save', None)		

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
AutoSwitch	'On'	'Off'
# AutoSwitch example InterfaceName.Update('AutoSwitch') Value = InterfaceName.ReadStatus('AutoSwitch') InterfaceName.SubscribeStatus('AutoSwitch', None, FeedbackHandler)		
Command	Value	Value
ButtonLock	'On'	'Off'
# ButtonLock example InterfaceName.Update('ButtonLock') Value = InterfaceName.ReadStatus('ButtonLock') InterfaceName.SubscribeStatus('ButtonLock', None, FeedbackHandler)		
Command	Value	Value
ConnectionStatus	'Connected'	'Disconnected'
# ConnectionStatus example Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)		
Command	Value	
DeviceCurrent	Decimal	
Qualifier Key	Qualifier Value	
'Device'	'1' – '3'	
# DeviceCurrent example InterfaceName.Update('DeviceCurrent', {'Device': '1'}) Value = InterfaceName.ReadStatus('DeviceCurrent', {'Device': '1'}) InterfaceName.SubscribeStatus('DeviceCurrent', None, FeedbackHandler)		
Command	Value	
FirmwareVersion	'String'	
# FirmwareVersion example InterfaceName.Update('FirmwareVersion') Value = InterfaceName.ReadStatus('FirmwareVersion') InterfaceName.SubscribeStatus('FirmwareVersion', None, FeedbackHandler)		
Command	Value	Value
GPINMode	'Pulse'	'Level'
# GPINMode example InterfaceName.Update('GPINMode') Value = InterfaceName.ReadStatus('GPINMode') InterfaceName.SubscribeStatus('GPINMode', None, FeedbackHandler)		

Command HubPower	Value 'On'	Value 'Off'
Qualifier Key 'Hub'	Qualifier Value '1' – '3'	
# HubPower example InterfaceName.Update('HubPower', {'Hub': '1'}) Value = InterfaceName.ReadStatus('HubPower', {'Hub': '1'}) InterfaceName.SubscribeStatus('HubPower', None, FeedbackHandler)		
Command Input	Value '1' – '2'	Value 'Off'
# Input example InterfaceName.Update('Input') Value = InterfaceName.ReadStatus('Input') InterfaceName.SubscribeStatus('Input', None, FeedbackHandler)		
Command PCSwitchReason	Value 'Host Off' 'Command'	Value 'Host CHG' Value 'Button'
# PCSwitchReason example InterfaceName.Update('PCSwitchReason') Value = InterfaceName.ReadStatus('PCSwitchReason') InterfaceName.SubscribeStatus('PCSwitchReason', None, FeedbackHandler)		
Command PCVoltage	Value Decimal	
Qualifier Key 'PC'	Qualifier Value '1' – '2'	
# PCVoltage example InterfaceName.Update('PCVoltage', {'PC': '1'}) Value = InterfaceName.ReadStatus('PCVoltage', {'PC': '1'}) InterfaceName.SubscribeStatus('PCVoltage', None, FeedbackHandler)		

Cable and Adapter Requirements

Captive Screw to Captive Screw

Notes for the Device

Serial communication

Port Type: RS-232

Baud Rate: 9600

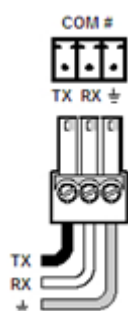
Data Bits: 8

Parity: None

Stop Bits: One

Flow Control: None

Pin Assignments Diagram



Signal	Main Cable	Signal
TxD		TxD
RxD		RxD
GND		GND



Appendix A. Set Commands

Auto Switch Off	SM 1\x0D
Auto Switch On	SM 0\x0D
Button Lock Off	SLCK 1\x0D
Button Lock On	SLCK 0\x0D
GPIN Mode Level	SGMOD 1\x0D
GPIN Mode Pulse	SGMOD 0\x0D
Input 1	SH 1\x0D
Input 2	SH 2\x0D
Input Off	SH 0\x0D
Reset None	RST\x0D
Save None	SAVE\x0D

Appendix B. Update Commands

Auto Switch	GM\x0D
Button Lock	GLCK\x0D
Device Current Device 1	GDI 1\x0D
Device Current Device 3	GDI 3\x0D
Firmware Version	FW\x0D
GPIN Mode	GGMOD\x0D
Hub Power Hub 1	GHPW 1\x0D
Hub Power Hub 3	GHPW 3\x0D
Input	GH\x0D
PC Switch Reason	GCAUSE\x0D
PC Voltage PC 1	GHV 1\x0D
PC Voltage PC 2	GHV 2\x0D