

This document provides additional assistance with wiring your Extron IP Link® Pro Series enabled product 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 Extron IP Link® Pro Series enabled product or the controlled device manufacturer supplied documentation.

## Device Specifications

Device Type: Controller  
 Manufacturer: BZBGear  
 Firmware Version: N/A  
 Model(s): BG-IPGEAR-ULTRA-C

## Tested on the Following Software and Firmware Versions

GC (Plus, Pro) Version	3.32.0.25
IP Link Pro Control Processor Firmware	3.18.0001-b002
IP Link Pro Control Processor xi Firmware	1.13.0000-b010
IP Link Pro Control Processor Q xi Firmware	1.13.0000-b010
MediaLink Plus Controller Firmware	3.04.0000-b001
HC 400 Series Firmware	2.11.0002-b002
TLP Pro x25 and TLC Pro x26 Series Firmware	3.13.0000-b008
TLP Pro 300M Firmware	1.08.0000-b008

## Version History

Driver Version	Date	Notes
1_0_0	5/22/2026	Initial Version

## Driver Notes

- User Defined command takes a string parameter and sends the string out of the port.

## Driver Timings

- Recommended repeat rate for this driver is .1 seconds.

### Control Commands & States

<b>Audio Input</b>			
<b>Encoder</b>	Decimal		
<b>Value</b>	HDMI	Analog	
<b>Matrix Preset Recall</b>			
<b>Value</b>	1 – 30		
<b>Matrix Preset Save</b>			
<b>Encoder</b>	Decimal		
<b>Decoder</b>	Decimal		
<b>Value</b>	1 – 30		
<b>User Defined Command</b>			
<b>Value</b>	None		
<b>User Defined String</b>			
<b>Value</b>	String		
<b>Video Wall Create</b>			
<b>Video Wall Index</b>	1 – 255		
<b>Columns</b>	1 – 50		
<b>Rows</b>	1 – 50		
<b>Resolution</b>	1280x720@50Hz	1280x720@60Hz	1920x1080@24Hz
	1920x1080@25Hz	1920x1080@30Hz	1920x1080@50Hz
	1920x1080@60Hz	3840x2160@24Hz	3840x2160@25Hz
	3840x2160@30Hz	3840x2160@50Hz	3840x2160@60Hz
	4096x2160@24Hz	4096x2160@25Hz	4096x2160@30Hz
	4096x2160@50Hz	4096x2160@60Hz	1360x768@60Hz
	1680x1050@60Hz	1920x1200@60Hz	
	<b>Value</b>	None	

<b>Video Wall Preset Recall</b>	
<b>Video Wall Index</b>	1 – 255
<b>Value</b>	1 – 9
<b>Window Create</b>	
<b>Video Wall Index</b>	1 – 255
<b>Preset Index</b>	1 – 9
<b>Window Index</b>	1 – 36
<b>Position X <sup>1</sup></b>	0 – 4096
<b>Position Y <sup>1</sup></b>	0 – 2160
<b>Width <sup>1</sup></b>	0 – 4096
<b>Height <sup>1</sup></b>	0 – 2160
<b>Name</b>	String
<b>Value</b>	None
<b>Window Resize</b>	
<b>Video Wall Index</b>	1 – 255
<b>Preset Index</b>	1 – 9
<b>Window Index</b>	1 – 36
<b>Position X <sup>1</sup></b>	0 – 4096
<b>Position Y <sup>1</sup></b>	0 – 2160
<b>Width <sup>1</sup></b>	0 – 4096
<b>Height <sup>1</sup></b>	0 – 2160
<b>Value</b>	None

<sup>1</sup> Max value dependent on resolution.

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## Status Available

Connection Status <sup>RP</sup>	
Value	Connected                      Disconnected
Firmware Version	
Value	String
User Defined String	
Value	String

<sup>RP</sup> Connection Status is based off of the following string: GET STATUS\r

## Cable and Adapter Requirements

Captive Screw to Captive Screw

## Notes for the Device

### Serial communication

Port Type: RS-232

Baud Rate: 57600

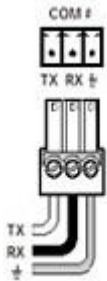
Data Bits: 8

Parity: None

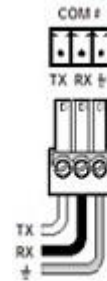
Stop Bits: One

Flow Control: None

### Pin Assignments Diagram



Signal	Main Cable	Signal
TxD	↘ ↙	TxD
RxD	↙ ↘	RxD
GND	—	GND



## Network communication

When configuring the Ethernet driver, be sure device settings match that of the GCP configuration.

<b>Port Type:</b>	Ethernet (TCP)
<b>Default Port:</b>	23
<b>Logon Credentials</b>	No
<b>Supported:</b>	
<b>Multi-Connection</b>	Undetermined
<b>Capabilities:</b>	
<b>Port Changeability:</b>	Yes

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## Ethernet Driver Configuration Description

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

## Notes for the Device