

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: Display  
Manufacturer: LG Electronics  
Firmware Version: N/A  
Model(s): 65US770H0UD, 75US770H0UD, 43US670H0UA, 50US670H0UA, 49US770H0UA,  
43US670H9UA, 50US670H9UA, 55US670H0UA, 55US770H0UA, 55US670H9UA

## Tested on the Following Software and Firmware Versions

GC (Plus, Pro) Version	3.14.0.63
IP Link Pro Control Processor Firmware	3.14.0000-b007
MediaLink Plus Controller Firmware	3.02.0002-b003
HC 400 Series Firmware	2.09.0001-b016
TLC Pro Series Firmware	3.06.0003-b002

## Version History

Driver Version	Date	Notes
1_0_0	11/12/2021	Initial Version

**Driver Notes**

- User Defined command takes a string parameter and sends the string out of the port.
- Only Power Command will be sent to the device when it is Off.
- The Device ID parameter must match the ID set on the display. It ranges from 1 – 99 and supports Broadcast. The default Device ID is set to 1.
- When the Device ID parameter is set to Broadcast, status is unavailable.

**Driver Timings**

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

## Control Commands & States

<b>Aspect Ratio</b>			
<b>Value</b>	4:3	16:9	Original
	Just Scan		
<b>Audio Mute</b>			
<b>Value</b>	On	Off	
<b>Channel</b>			
<b>Value</b>	Up	Down	
<b>Executive Mode</b>			
<b>Value</b>	On	Off	
<b>Input</b>			
<b>Value</b>	DTV	CADTV	ATV
	CATV	HDMI 1	HDMI 2
	HDMI 3		
<b>Keypad</b>			
<b>Value</b>	0 – 9	-	
<b>Menu Navigation</b>			
<b>Value</b>	Up	Down	Left
	Right	Enter	Menu
	Exit	Back	
<b>Power</b>			
<b>Value</b>	On	Off	
<b>User Defined Command</b>			
<b>Value</b>	None		
<b>User Defined String</b>			
<b>Value</b>	String		
<b>Video Mute</b>			
<b>Value</b>	On	Off	On (With OSD)
<b>Volume</b>			
<b>Value</b>	0 to 100 in steps of 1		

## Status Available

<b>Aspect Ratio</b>			
<b>Value</b>	4:3 Just Scan	16:9	Original
<b>Audio Mute</b>			
<b>Value</b>	On	Off	
<b>Connection Status</b> <sup>RP</sup>			
<b>Value</b>	Connected	Disconnected	
<b>Executive Mode</b>			
<b>Value</b>	On	Off	
<b>Input</b>			
<b>Value</b>	DTV CATV HDMI 3	CADTV HDMI 1	ATV HDMI 2
<b>Power</b>			
<b>Value</b>	On	Off	
<b>User Defined String</b>			
<b>Value</b>	String		
<b>Video Mute</b>			
<b>Value</b>	On	Off	On (With OSD)
<b>Volume</b>			
<b>Value</b>	0 to 100 in steps of 1		

<sup>RP</sup> Connection Status is based off of the following string:

ka **ID** FF\r, where **ID** is the ASCII-encoded representation of the Device ID

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## Cable and Adapter Requirements

Captive Screw to Female DB9 RS-232 Serial Cable

## Notes for the Device

- Model 75US770H0UD uses 3.5 mm Stereo Jack connector.

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## Serial communication

**Port Type:** RS-232

**Baud Rate:** 9600

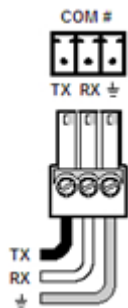
**Data Bits:** 8

**Parity:** None

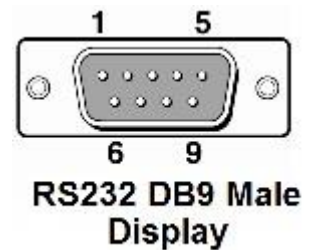
**Stop Bits:** One

**Flow Control:** None

## Pin Assignments Diagram



Signal	Main Cable	Pin	Signal
TxD	→	2	RxD
RxD	←	3	TxD
GND		5	GND



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## General Notes