

This document provides additional assistance with wiring your Extron IPL PRO enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instruction, refer to the user's manual for the specific Extron IPL PRO enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type: Display
 Manufacturer: Planar
 Firmware Version: N/A
 Model(s): UR8451-LX, UR7551, UR7551-ERO, UR8451-LX-ERO, UR8451-MX, UR8451-MX-ERO, UR9851, UR9851-ERO

Tested on the Following Software and Firmware Versions:

IP Link Pro Control Processor Firmware	Touch Link Panel Firmware	GS Version
2.02.0000-b012	2.01.0000-b003	1.1.0

Version History

Module Version	Date	Notes
1_0_0_0	9/12/2016	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 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

Control Commands, States, and Qualifiers:

AspectRatio	'Auto' 'Fill'	'16:9' 'Native'	'4:3' 'Letterbox'
['Zone']	'Current'	'1' – '4'	
AudioZone	'1' – '4'		
AutoPower	'On'	'Off'	
AutoSourceScan	'On'	'Off'	
EcoMode	'Off'	'On'	'Wake On Signal'
EDID	'4K60'	'4K30'	'1080p'
['Input']	'OPS' 'HDMI 3' 'All'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'
EDIDZone	'OPS' 'HDMI 3' 'All'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'
Input	'OPS' 'HDMI 3'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'
['Zone']	'Current'	'1' – '4'	'All'
Keypad	'0' – '9'		
MenuNavigation	'Up' 'Right' 'Back'	'Down' 'Enter' 'Menu'	'Left' 'Exit' 'Top'
MultiSourceLayout	'Single' 'PIP Lower Left' 'Dual Left/Right' 'Triple Top' 'Quad'	'PIP Upper Left' 'PIP Lower Right' 'Triple Left' 'Triple Bottom'	'PIP Upper Right' 'Dual Top/Bottom' 'Triple Right' 'Triple Middle'
Mute	'On'	'Off'	
PIPSize	'Small'	'Medium'	'Large'
PIPSwap	None		
Power	'On'	'Off'	
Preset	1 – 1000		
['Action']	'Delete'	'Save'	'Recall'
Reboot	None		
TouchControl	'OPS'	'External'	'Auto'
Volume	0 to 100 in steps of 1		

Zone	'1' – '4'
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Status Available:

AspectRatio	'Auto' 'Fill'	'16:9' 'Native'	'4:3' 'Letterbox'
['Zone']	'Current' '3'	'1' '4'	'2'
AudioSourceStatus	'OPS' 'HDMI 3'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'
AudioZone	'1' – '4'		
AutoPower	'On'	'Off'	
AutoSourceScan	'On'	'Off'	
ConnectionStatus	'Connected'	'Disconnected'	
CurrentZoneLayout	'Single View' 'PIP, Upper Right in Zone 1' 'PIP, Lower Left in Zone 2' 'Dual View, Left/Right in Zone 1' 'Dual View, Top/Bottom in Zone 2' 'Triple View, One Left/Two Right in Zone 3' 'Triple View, Two Left/One Right in Zone 3' 'Triple View, One Top/Two Bottom in Zone 3' 'Triple View, Two Top/One Bottom in Zone 3' 'Triple View, Side by Side in Zone 3' 'Quad View in Zone 3'	'PIP, Upper Left in Zone 1' 'PIP, Upper Right in Zone 2' 'PIP, Lower Right in Zone 1' 'Dual View, Left/Right in Zone 2' 'Triple View, One Left/Two Right in Zone 1' 'Triple View, Two Left/One Right in Zone 1' 'Triple View, One Top/Two Bottom in Zone 1' 'Triple View, Two Top/One Bottom in Zone 1' 'Triple View, Side by Side in Zone 1' 'Quad View in Zone 1' 'Quad View in Zone 4'	'PIP, Upper Left in Zone 2' 'PIP, Lower Left in Zone 1' 'PIP, Lower Right in Zone 2' 'Dual View, Top/Bottom in Zone 1' 'Triple View, One Left/Two Right in Zone 2' 'Triple View, Two Left/One Right in Zone 2' 'Triple View, One Top/Two Bottom in Zone 2' 'Triple View, Two Top/One Bottom in Zone 2' 'Triple View, Side by Side in Zone 2' 'Quad View in Zone 2'
EcoMode	'Off'	'On'	'Wake On Signal'
EDID	'4K60'	'4K30'	'1080p'
['Input']	'OPS' 'HDMI 3' 'All'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'

Global Scriptor Module Communication Sheet

EDIDZone	'OPS' 'HDMI 3' 'All'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'
Input	'OPS' 'HDMI 3'	'HDMI 1' 'HDMI 4'	'HDMI 2' 'DisplayPort'
['Zone']	'Current'	'1' – '4'	'All'
MultiSourceLayout	'Single' 'PIP Lower Left' 'Dual Left/Right' 'Triple Top' 'Quad'	'PIP Upper Left' 'PIP Lower Right' 'Triple Left' 'Triple Bottom'	'PIP Upper Right' 'Dual Top/Bottom' 'Triple Right' 'Triple Middle'
Mute	'On'	'Off'	
PIPSize	'Small'	'Medium'	'Large'
Power	'On' 'Powering Down'	'Off' 'Backlight Off'	'Powering Up' 'Fault'
TouchControl	'OPS'	'External'	'Auto'
Volume	0 to 100 in steps of 1		
Zone	'1' – '4'		

Cable and Adapter Requirements:

Captive Screw to Female DB9 RS-232 Serial Cable

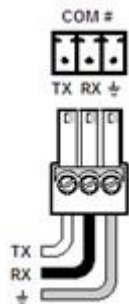
Notes for the Device:

Serial communication:

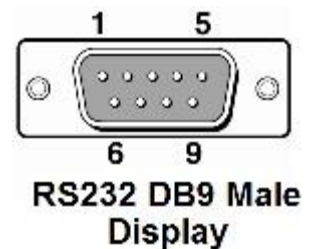
Port Type: RS-232
Baud Rate: 19200
Data Bits: 8

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



General Notes:

Network communication:

When configuring the Ethernet interface, be sure the device settings match that of the GS interface settings.

Port Type:	Ethernet
Default Port:	57
Logon Credentials Supported:	No
Multi-Connection Capabilities:	Undetermined
Port Changeability:	No

Ethernet Module Configuration Description:

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

Notes for the Device: