

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

Device Specifications:

Device Type: Scaler
Manufacturer: Extron
Firmware Version: 1.00
Model(s): IN1606

Minimum Software and Firmware Requirements:

IP Link Compiler	IP Link Firmware	GC Version
1.6.0	1.17	3.5.0

Version History:

Driver Version	Date	Notes
8	7/15/2013	Extron Certified. Fixed password authentication issue.
7	7/02/2013	Extron Certified. Changed the "Port Changeability" to "Yes"
6	5/23/2013	Extron Certified. Added Output Resolution and Switching Effect commands.
5	4/09/2013	Extron Certified. Fixed feedback issues. Added Screen Saver command. Tested on IN1606.
4	4/08/2013	Extron Certified. Fixed issues with Volume control. Tested on IN1606.
3	3/25/2013	Extron Certified. Tested on IN1606. Fixed Volume & Gain status.
2	3/14/2013	Initial version. Extron Certified. Tested on IN1606.

IP Link® Device Interface Ethernet Communication Sheet

Driver Notes:

- This driver contains Volume Optimization.
- Input Format command will not display status if the input selected does not have an active signal.
- Input Format and Aspect Ratio command require bidirectional communication to work properly

Control Commands & States:

Aspect Ratio	Fill Screen	Follow Input	
Audio Input	1-6		
Audio Input 1-6*	Analog	Digital 1	Digital 2
	Digital 3	Digital 4	Off
Audio/Video Input	1-6		
Auto Image	Mode 1 ¹	Mode 2 ²	Mode 3 ³
Executive Mode	Mode 1 ⁴	Mode 2 ⁵	Off
Freeze	On	Off	
Input 3-6 HDCP Authorization	Enable	Disable	
Input Format	RGB	YUV	RGBcvS
	S-Video	Composite	Digital
	Auto		
Input Preset Recall	1-128		
Input Preset Save	1-128	1	2
Mic/Line Pre-mixer Gain (Discrete)	-100 to 0 in steps of 1		
Mic/Line Pre-mixer Gain (Step)	Up	Down	
Mic/Line Pre-mixer Mute	On	Off	
Output Mute	On	Off	
Output Resolution	640x480 (60Hz)	800x600 (60Hz)	1024x768 (60Hz)
	1280x768 (60Hz)	1280x800 (60Hz)	1280x1024 (60Hz)
	1360x765 (60Hz)	1360x768 (60Hz)	1365x768 (60Hz)
	1366x768 (60Hz)	1440x900 (60Hz)	1400x1050 (60Hz)
	1600x900 (60Hz)	1680x1050 (60Hz)	1600x1200 (60Hz)

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	1920x1200 (60Hz)	480p (60Hz)	720p (25Hz)
	720p (29.97Hz)	720p (30Hz)	720p (59.94Hz)
	720p (60Hz)	1080i (60Hz)	1080p (23.98Hz)
	1080p (24Hz)	1080p (25Hz)	1080p (29.97Hz)
	1080p (30Hz)	1080p (50Hz)	1080p (59.94Hz)
	1080p (60Hz)		
Post-switcher Gain (Discrete)	-100 to 0 in steps of 1		
Post-switcher Gain (Step)	Up	Down	
Post-switcher Mute	On	Off	
Power Save Mode	On	Off	
Switching Effect	Cut	Fade	
User Preset Recall	1-16		
User Preset Save	1-16		
Variable Output Volume (Discrete)	100 to 0 in steps of 1		
Variable Output Volume (Step)	Up	Down	
Video Input	1-6		
Video Mute	Mode 1	Mode 2	Off

1. Auto Image Mode 1: Execute an auto image to the current input (follows current aspect setting)
 2. Auto Image Mode 2: Execute an auto image and fill the entire output
 3. Auto Image Mode 3: Execute an auto image and follow the input's aspect ratio
 4. Executive Mode 1: Lock out entire front panel
 5. Executive Mode 2: Limited front panel adjustments (input selection, PIP/SWAP, and Auto Image)
 6. Video Mute Mode 1: Mutes video and displays black video (Global)
 7. Video Mute Mode 2: Mutes video and sync on all outputs (Global)
- *Audio Input 1 and 2 only support "Analog" and "Off" states.

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Status Available:

Aspect Ratio	Fill Screen	Follow Input	
Audio Input	1-6		
Audio Input 1-6*	Analog	Digital 1	Digital 2
	Digital 3	Digital 4	Off
Connection Status	Connected	Disconnected	
Executive Mode	Mode 1	Mode 2	Off
Freeze	On	Off	
Input 1-6 Status	Signal Present	No Signal Present	Status Unavailable
Input 3-6 HDCP Authorization	Enable	Disable	
Input Format	RGB	YUV	RGBcvS
	S-Video	Composite	Digital
	Auto		
Mic/Line Pre-mixer Gain (Discrete)	-100 to 0 in steps of 1		
Mic/Line Pre-mixer Gain (Step)	Up	Down	
Mic/Line Pre-mixer Mute	On	Off	
Output Mute	On	Off	
Output Resolution	640x480 (60Hz)	800x600 (60Hz)	1024x768 (60Hz)
	1280x768 (60Hz)	1280x800 (60Hz)	1280x1024 (60Hz)
	1360x765 (60Hz)	1360x768 (60Hz)	1365x768 (60Hz)
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	1920x1200 (60Hz)	480p (60Hz)	720p (25Hz)
	720p (29.97Hz)	720p (30Hz)	720p (59.94Hz)
	720p (60Hz)	1080i (60Hz)	1080p (23.98Hz)
	1080p (24Hz)	1080p (25Hz)	1080p (29.97Hz)
	1080p (30Hz)	1080p (50Hz)	1080p (59.94Hz)
	1080p (60Hz)		
Post-switcher Gain (Discrete)	-100 to 0 in steps of 1		

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Post-switcher Mute	On	Off	
Power Save Mode	On	Off	
Switching Effect	Cut	Fade	
Screen Saver	Active input detected; timer not running	No active input; timer expired; output sync disabled	No active input; timer running; output sync still active
Variable Output Volume (Discrete)	100 to 0 in steps of 1		
Variable Output Volume (Step)	Up	Down	
Video Input	1-6		
Video Mute	Mode 1	Mode 2	Off

*Audio Input 1 and 2 only support “Analog” and “Off” states.

Network communication:

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

Port Type:	Ethernet
Logon Credentials Supported:	Yes
Default Port:	23
Multi-Connection Capable:	Yes
Port Changeable:	Yes

Ethernet Driver Configuration Description:

Please refer to user manual for settings and changes to the network communication parameters such as: User Name, Passwords.

Notes for the Device: