

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: Video Projector
 Manufacturer: Sharp
 Firmware Version: N/A
 Model(s): XG-P20XU & XG-P25XU

Version History:

Driver Version	Date	IP Link™ Compiler	IP Link™ Firmware	GVC Version	Notes
8	10/20/2004	1.0.9.3	1.04	1.4	Beta version. Corrected some logic tests to allow unidirectional operation. Increased lamp time query frequency to once every 20 minutes.
7	8/4/2004	1.0.9.3	1.04	1.3	Added check for signal on input. If no signal or signal not recognized by projector for ~45 seconds, all queries but power cease to allow projector to enter auto power off. Changed standby mode processing so that 'power on' command is issued within 2 seconds of clicking on Global Viewer webpage button. Added logic to prevent issue of commands other than 'power on' while the projector is in standby. Tested with XG-P25X.
6	7/2/2004	1.0.9.3	1.04	1.3	Driver rewritten to include new functionality. Tested with Sharp XG-P25X. <u>New commands:</u> Volume, and Volume Mute. <u>New status:</u> Horizontal frequency and resolution, Lamp, Trouble, Vertical frequency and resolution, Volume and Volume Mute. Auto Image renamed Auto Sync. Video Mute renamed Black Screen. Power Status renamed Device Status.
5	4/6/2004	1.0.9.1	1.04	1.2	During standby, power status query now queried every 15 seconds. Tested with Sharp XG-P25X.
4	4/6/2004	1.0.9.1	1.04	1.2	Custom driver. Tested with Sharp XG-P25X.
3	N/A	N/A	1.04	1.2	Added: During standby, power status queried only once per minute. Tested with Sharp XG-P25X.
2	N/A	N/A	N/A	N/A	Internal version. Not released.
1	11/7/2003	N/A	1.01	N/A	Initial version. Tested with Sharp XG-P25X.

Driver Notes:

To prevent damage to the projector, the driver will only query power status once every 15 seconds while the projector is in standby. Only the 'power on' command will be processed during that time.

Horizontal & vertical frequency status information is rounded to the nearest whole number. To reduce fluctuation of the reported values, frequencies and resolutions are queried only once every 9 seconds.

Lamp time is queried once when the projector is powered on and then once every 20 minutes afterward. This may cause the GlobalViewer™ webpage to occasionally become out of sync with the projector's internal menu pages. This disagreement will persist for no more than 20 minutes.

To allow the projector to automatically power off after inactivity, this driver checks for an active signal on the currently select input. If no signal, or a signal the projector does not recognize, is present for approximately 45 seconds, the driver will cease status queries, except for power, for approximately 20 minutes. Only the power status indicator will be updated during that time. However, the driver will resume status queries whenever a button is clicked on the GlobalViewer™ webpage. The same check for signal will then apply.

Control Commands & States:

Auto Sync (Not applicable to Video)	Auto Sync		
Freeze	Off	On	
Input	Video 1	Video 2	RGB 1
	RGB 2	RGB 3	
Black Screen	Off	On	
Power	Off	On	
Volume	Range(0 to 60,1 step, slider)		
Volume Mute	Off	On	

IP Link™ Device Interface Communication Sheet

Status Available:

Black Screen	On	Off	
Connection Status	Connected	Disconnected	
Freeze	Off	On	
Horizontal Freq.	Horizontal Frequency (kHz)		
Horizontal Res.	Horizontal Resolution		
Input	Video 1	Video 2	RGB 1
	RGB 2	RGB 3	
Lamp Status	Retry	Waiting	Lamp Error
	Off	On	Status Unavailable
Lamp Usage Time (hours)	Lamp Usage Time (hours)		
Power	Off	On	
Power Status	On	Off	Status Unavailable
Trouble Status	Normal	Filter Cover Error	Fan Error
	Lamp Burnt-out	Lamp Life 5% or Less	Lamp Not Lit
	Status Unavailable	Temp Abnormally High	Temp High
Vertical Freq.	Vertical Frequency (Hz)		
Vertical Res.	Vertical Resolution		
Volume	Range(0 to 60,1 step, slider)		
Volume Mute	Off	On	

Cable and Adapter Requirements:

F/F 9-pin DSUB gender changer (Extron Electronics P/N 10-438-10)

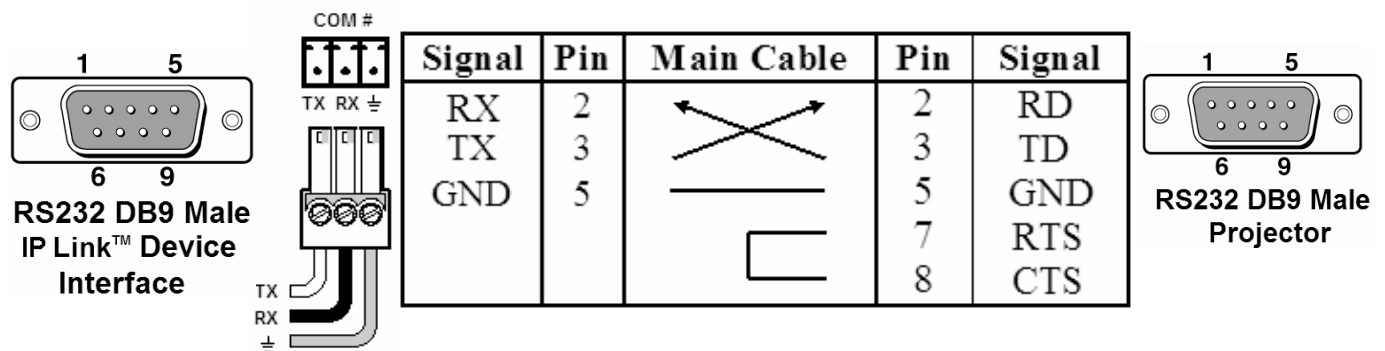
M/F RS-232 Straight Modem Cable (Extron Electronics P/N 26-433-03)

Sharp Comm. Adapter - XG/NV Series (Extron Electronics P/N 26-467-01)

If building a custom cable, use diagram below.

Notes for the Device:

N/A

Serial communication:**Port Type:** RS232**Baud Rate:** 9600**Data Bits:** 8**Parity:** None**Stop Bits:** 1**Flow Control:** None**Pin Assignments Diagram:**

Note: Captive screw connector may also be used as a serial connection.

General Notes:

N/A