IP Link® Device Interface Communication Sheet

Revision: 10/14/2009

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: Switcher Manufacturer: Kramer Firmware Version: 1.09

Model(s): VP-728, VP-729

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
3	9/29/2009	1.4.0	3.0.1	Extron Certified version. Tested on VP-729 firmware version 1.09. Added Executive Mode, Menu Navigation, Picture in Picture Swap, Preset Save, Preset Recall, and Volume (Steps). Updated Aspect Ratio.
2	5/4/2009	1.3.11.1	2.5.1	Updated driver to use manufacture latest protocol.
1	4/23/2009	1.3.11.1	2.5.1	Initial version.

Driver Notes:

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Control Commands & States:

Aspect Ratio	Best Fit	Letterbox	Output
\	Wide	Native	Custom
Audio Mute	On	Off	
Auto Image	Execute		
Executive Mode	On	Off	
Freeze	On	Off	
Input I	Input 1	Input 2	Input 3
I	Input 4	VGA 1	VGA 2
I	HDMI1	HDMI2	USB Port
Menu Navigation	Menu	Up	Down
I	Left	Right	Enter
Picture In Picture	On	Off	
Picture In Picture Swap	Execute		
PIP Input	Input 1	Input 2	Input 3
I	Input 4	VGA 1	VGA 2
I	HDMI1	HDMI2	USB Port
PIP Settings I	PIP	Side by Side	Split
PIP Size	1/4	1/9	1/16
1	1/25	Custom	
Power Control	On	Off	
Preset Recall	1 – 8		
Preset Save	1 – 8		
Scaled Volume	0 to 100 in steps of 1		
Video Mute	On	Off	
Viaco Mate			
-	-100 to 24 in steps of 1		

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Status Available:

Aspect Ratio	Best Fit	Letterbox	Output
rispect Ratio	Wide	Native	Custom
	wide	native	Custom
Audio Mute	On	Off	
Connection Status	Connected	Disconnected	
Executive Mode	On	Off	
Freeze	On	Off	
Input	Input 1	Input 2	Input 3
	Input 4	VGA 1	VGA 2
	HDMI1	HDMI2	USB Port
Picture In Picture	On	Off	
PIP Input	Input 1	Input 2	Input 3
	Input 4	VGA 1	VGA 2
	HDMI1	HDMI2	USB Port
PIP Settings	PIP	Side by Side	Split
PIP Size	1/4	1/9	1/16
	1/25	Custom	
Power Control	On	Off	
Scaled Volume 0 to 100 in steps of 1			
Video Mute	On	Off	
Volume (Discrete)	-100 to 24 in steps of 1		

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MLC62 Supported Commands:

	<u> </u>		
Aspect Ratio	Best Fit	Letterbox	Output
	Wide	Native	Custom
Audio Mute	On	Off	
Auto Image	Execute		
Executive Mode	On	Off	
Freeze	On	Off	
Input	Input 1	Input 2	Input 3
	Input 4	VGA 1	VGA 2
	HDMI1	HDMI2	USB Port
Menu Navigation	Menu	Up	Down
	Left	Right	Enter
Picture In Picture	On	Off	
Picture In Picture Swap	Execute		
PIP Input	Input 1	Input 2	Input 3
	Input 4	VGA 1	VGA 2
	HDMI1	HDMI2	USB Port
PIP Settings	PIP	Side by Side	Split
PIP Size	1/4	1/9	1/16
	1/25	Custom	
Power Control	On	Off	
Preset Recall	1 – 8		
Preset Save 1-8			
Scaled Volume	0 to 100 in steps of 1		
Video Mute	On	Off	
Volume (Discrete)	-100 to 24 in steps of 1		
Volume (Step)	Up	Down	

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Cable and Adapter Requirements:

M/F RS-232 Null Modem Serial Cable

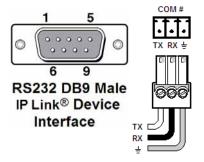
Notes for the Device:

There was a noticeable issue with Kramer switchers running firmware version 1.04 or 1.05. The device use to lock up its RS232 port when the device is powering On and Off using the hard power switch. However after testing this issue with the VP-728 with firmware version 1.09, it looks like Kramer fixed this problem of locking up. We advise the user to update the Kramer firmware version to 1.09 or later

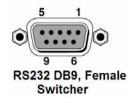
Serial communication:

Port Type:RS-232Parity:NoneBaud Rate:9600Stop Bits:1Data Bits:8Flow Control:None

Pin Assignments Diagram:



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



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

General Notes: