# FLX-88 Installation and Operation Guide





#### **Important Safety Instructions**

- > Please completely read and verify you understand all instructions in this manual before operating this equipment.
- ➤ Keep these instructions in a safe, accessible place for future reference.
- Heed all warnings.
- Follow all instructions.
- > Do not use this apparatus near water.
- Clean only with a dry cloth.
- > Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only accessories specified or recommended by Intelix.
- > Explanation of graphical symbols:
  - o Lightning bolt/flash symbol: the lightning bolt/flash and arrowhead within an equilateral triangle symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure which may be of sufficient magnitude to constitute a risk of shock to a person or persons.



o Exclamation point symbol: the exclamation point within an equilateral triangle symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



- > WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.
- Use the mains plug to disconnect the apparatus from the mains.
- > THE MAINS PLUG OF THE POWER CORD MUST REMAIN READILY ACCESSIBLE.
- Do not defeat the safety purpose polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of your obsolete outlet. Caution! To reduce the risk of electrical shock, grounding of the center pin of this plug must be maintained.
- Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and the point where they exit from the apparatus.
- Do not block the air ventilation openings. Only mount the equipment per Intelix's instructions.
- Use only with the cart, stand, table, or rack specified by Intelix or sold with the equipment. When/if a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.



- > Unplug this apparatus during lightning storms or when unused for long periods of time.
- > Caution! Shock Hazard. Do not open the unit.
- Refer to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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# **Overview**

The Intelix FLX-88 is a modular eight input by eight output video matrix switcher. Each modular input or output card supports up to four device connections. In addition to front panel control, the FLX-88 can be controlled via IR, RS232, or TCP/IP connections.

The modular input cards include the following connections: HDMI (with stereo audio embedding), DVI, HDBaseT (with RS232 and bi-directional wide-band IR), and analog video with digital scaling via HD15 (VGA-UXGA, RGBHV, RGsB, RsGsBs, component video, S-video and composite video). The modular output cards include the following connections: HDMI (with stereo audio de-embedding, DVI, and HDBaseT (with audio de-embedding).

Clear button caps provide legible text on the front panel, which can be customized for each installation. IR, RS232, and TCP/IP provide a wide range of options for third party control systems. Ten programmable presets provide an efficient means of configuring the video and audio distribution for common usage patterns.

The FLX-88 was designed with flexibility in mind. There are over 80 possible input card to output card combinations. Since the system is modular, the system integrator can customize their installation per their customer's needs and not the limitations of available hardware.

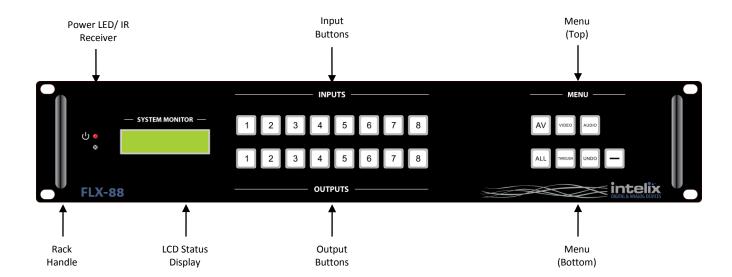
## Package Contents

Please verify the following items are in the shipping box prior to installation of the FLX-88.

- 1 ea FLX-88 Flexible Matrix Switcher
- 2 ea Modular Input Metal Blank (installed on FLX-88)
- 2 ea Modular Output Metal Blank (installed on FLX-88)
- 4 ea Rubber Feet
- 1 ea Power Cable
- 1 ea RS232 Cable
- 1 ea Infrared Remote Control
- 1 ea FLX-88 Installation and Operation Guide
- 1 ea Intelix Pocket Screwdriver



#### Front Panel



Power LED – Indicates the matrix has proper input power.

IR Receiver – For use with the included IR remote.

Input Buttons -Buttons labeled "1" through "8".

Menu Buttons (Top Row) –Buttons labeled "AV", "VIDEO", and "AUDIO".

AV – Used to route Video and Audio inputs to outputs

VIDEO – Used to route Video inputs to outputs

AUDIO - Not used on this model

Rack Handle – Eases installation in an equipment rack.

LCD Status Display – Displays matrix name and status when changing routes.

Output Buttons -Buttons labeled "1" through "8".

Menu Buttons (Bottom Row) −Buttons labeled "ALL", "THROUGH", "UNDO", and "←".

ALL – Used to route one input AV pair to all outputs or to route each AV input to its corresponding output.

THROUGH – Used to route the selected AV input to its corresponding output.

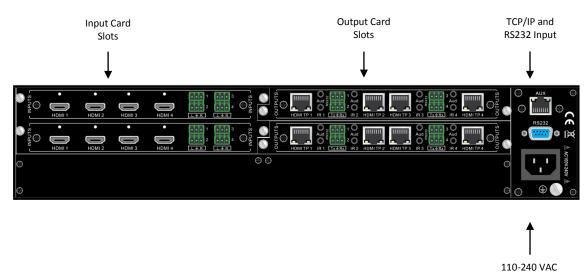
UNDO – Used to remove the last button press in a routing sequence

← – Used to clear the input source select.

Explanation of use for the front panel control is located in the section Front Panel Operation (page 18).



## Rear Panel



Input Card Slots – Two card slots to accommodate compatible input cards.

Output Card Slots – Two card slots to accommodate compatible output cards.

TCP/IP Input – Allows control via third party control system and web browser access.

RS232 Input – Allows control via third party control system.

AC Input – Standard IEC C14 inlet. Redundant power inlet – connect to [2] separate circuits, if the first circuit loses power, the matrix will switch automatically to the other circuit.

## IR Remote

The included IR remote performs all of the functions available on the front panel of the FLX-88.



Input



# **Input Cards**

The modular input cards are keyed on the right side to line up with the output cards and ensure they are installed correctly in the matrix.

## Analog Video (FLX-RI4)



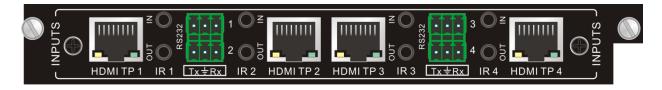
The HD15 inputs on the FLX-RI4 scale and convert a wide range of analog video signals to HD video resolutions, which can be routed to any available output. The individual scaler engine on each input can accommodate VGA to UXGA, RGBHV, RGsB, RsGsBs, component video, S-video, and composite video signals. Two FLX-RBOCA (component video breakout cable) and two FLX-RBOCB (composite and S-video breakout cable) cables are included with each FLX-RI4. See page 27 for commands to specify the input signal type.

## DVI (FLX-DI4)



The FLX-DI4 DVI-D inputs are HDMI and HDCP compliant and support CEC and DDC standards. Each input is a single link DVI-D connection that can support video resolutions up to 1920x1200.

## HDBaseT (FLX-BI4)



The FLX-BI4 takes advantage of HDBaseT inputs to allow sources from remote locations, from up to 70 m away, to be routed to any of the available outputs utilizing standard Cat 5e cable with a TIA-568B crimp. The RS232 and wide-band IR connections for each input allow bi-directional control signals at the equipment rack to interface with source equipment when used with the DIGI-HD70C-S or DIGI-HDE-S HDBaseT transmitters. The optional DIGIB-EMT (IR emitter) and DIGIB-EYE (IR receiver) are required for IR control functionality.

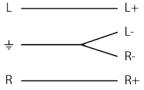


## HDMI (FLX-HI4A)



The FLX-HI4A HDMI inputs can be routed to any available outputs. The HDMI inputs can accept video signals up to 1920x1200, including 3D and 48-bit Deep Color at 1080p. Additionally, audio signals from stereo up to 7.1 audio streams will pass through the matrix to supported outputs. The input audio source is selectable (HDMI or analog) by RS232 or TCP/IP commands.

If the analog audio input is to be used in the installation, connect the Left, Right, and Ground reference wires to the removable 3-pole terminal block.





# **Output Cards**

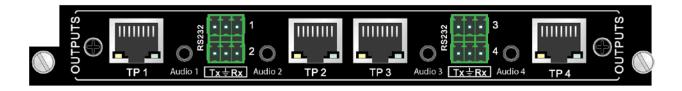
The modular output cards are keyed on the left side to line up with the input cards and ensure they are installed correctly in the matrix.

## DVI (FLX-DO4)



The FLX-DO4 DVI-D outputs are HDMI and HDCP compliant and support CEC and DDC standards. Each output is a single link DVI-D connection that can support video resolutions up to 1920x1200.

## HDBaseT (FLX-BO4A)



The FLX-BO4 takes advantage of HDBaseT outputs to connect any source device to a remote display, up to 70m away, utilizing standard Cat 6 cable with a TIA-568B crimp. The RS232 connections for each output allow bi-directional control signals at the equipment rack to interface with display devices when used with the DIGI-HD60C-R or DIGI-HDE-R HDBaseT receivers. Stereo audio can be de-embedded from the HDMI signal and output to the 3.5mm TRS connectors. This unit has advanced EDID copy functions that allow either full or hybrid copy (video with 2ch overwrite) to ensure that the source will emit the correct format.

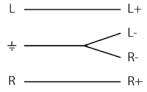


## HDMI (FLX-HO4A)

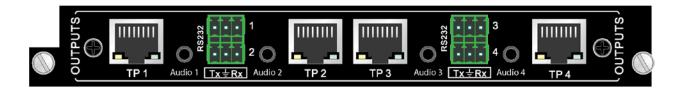


The FLX-HO4 HDMI outputs can be routed from any input in the matrix. The HDMI outputs can pass video signals up to 1920x1200, including 3D and 48-bit Deep Color at 1080p. Additionally, audio signals from stereo up to 7.1 audio streams will pass to supported HDMI output devices. This unit has advanced EDID copy functions that allow either full or hybrid copy (video with 2ch overwrite) to ensure that the source will emit the correct format (see page 17).

If the analog audio output is to be used in the installation, connect the Left, Right, and Ground reference wires to the removable 3-pole terminal block.



## Long Reach HDBaseT (FLX-BO4A-XL)



The FLX-BO4A-XL takes advantage of HDBaseT outputs to connect any source device to a remote display, up to 150m away, utilizing shielded Cat 5e or greater cable. The bi-directional RS232 connections for each output allow control signals at the equipment rack to control displays connected to compatible receivers. The FLX-BO4A-XL also includes the ability to extract stereo audio from the HDMI signal. The stereo analog audio is output to 3.5mm jacks. The FLX-BO4A-XL features advanced EDID handling features that ensure video and audio compatibility, such as full copy and hybrid copy functions.

The DIGI-HDXL series extenders are only compatible with Intelix XL-series HDBaseT product offerings. An HDBaseT link will not be established with other HDBaseT products.



# **Installation Instructions**

# Shelf Mounting Instructions

Attach the supplied rubber feet to the bottom of the FLX-88 matrix. Follow the instructions in *General I/O Card Installation* to install the I/O cards.

## **Rack Mounting Instructions**

The FLX-88 requires two rack units (2 RU) of space. At least 2 inches of free air space is required on both sides of the FLX-88 for proper side ventilation. Avoid mounting the FLX-88 near a power amplifier or any other source of significant heat. It is recommended that you leave an empty rack space above and below the FLX-88 for additional cooling.

## General I/O Card Installation

- 1. Power off the matrix.
- 2. Remove the metal blank.



3. Slide the I/O card between the guide rails until it is firmly seated.



4. Secure the I/O card by tightening the thumb screws.



- 5. Connect the appropriate cabling to the I/O card.
- 6. Power on the matrix.

## FLX-BI4 and FLX-BO4A Wiring

A compatible HDBaseT with control transmitter or receiver is required to pass the control signals to the source or display devices.

To connect the FLX-BI4 to a compatible transmitter or the FLX-BO4A to a compatible receiver, a Cat 6 or greater cable with a TIA-568B crimp termination on the RJ45 connector must be used. The Cat 6 cable must not exceed 40 meters for 3D content. The Cat 6 cable must not exceed 70 meters for 2D content.



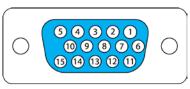
To use the IR extension capabilities of the FLX-BI4, the DIGIB-EYE (wideband IR receiver) and DIGIB-EMT (wideband IR emitter) will need to be connected to the appropriate IR ports. These parts are not included with the HDBaseT I/O cards.

To use the RS232 extension capabilities of the FLX-BI4 and FLX-BO4A, connect the TX, ground, and RX control signal wires to the removable 3-pole terminal block. Consult the manual of the control device(s) to determine which pins the TX/RX signals are carried on. Be sure to always connect TX to RX and RX to TX.

PC COM Port	FLX-BI4/BO4A	A 3-Pole Euro	Controlled Device COM Port
RXD (Pin 2)	—— тх	тх —	RXD (Pin 2)
TXD (Pin 3)	RX	RX —	TXD (Pin 3)
Ground (Pin 5)	——— GND	GND -	Ground (Pin 5)
Straight-Through RS232 Connection			

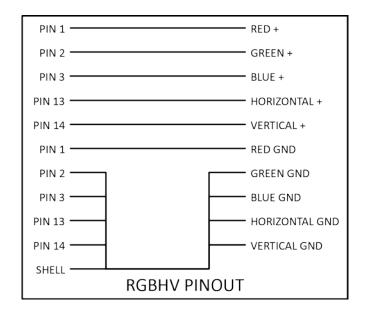
## FLX-RI4 Wiring

For VGA signals, use a standard VGA male to VGA male cable.



VGA PORT ON FLX-RI4

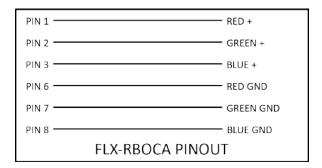
For RGBHV signals, use a standard VGA to RGBHV cable. Below is a common pinout of this type of cable.



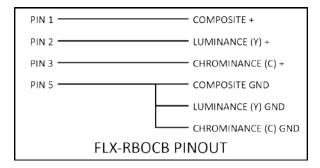


For component video, S-video, and composite video, a VGA to breakout cable is recommended. The FLX-RI4 comes with two FLX-RBOCA (component video breakout cable) and two FLX-RBOCB (composite and S-video breakout cable) cables. See *FLX-RI4 Specific Commands* on page 27 to define the operation of the inputs.

- Component video, RGsB, and RsGsBs connect to the appropriate red, green, and blue connections on the FLX-RBOCA cable.



- S-video connects to the purple connector on the FLX-RBOCB cable.
- Composite video connects to the yellow connector on the FLX-RBOCB cable.





# **EDID Management**

The stock EDID for the inputs of the FLX-88 is 1280x1024 (computer video input) and 1080p with stereo audio (consumer video input). In order to change the EDID information for an input, the EDID copy command will need to be sent to the matrix via RS232 or TCP/IP.

EDIDMyyBxx.	Copy EDID of output yy to input xx
EDIDMInit.	Restore factory EDID information

The FLX-RI4 input card ignores the EDID settings since there is a scaler engine on each input to output a pre-defined video resolution.

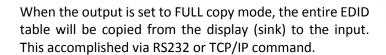
## Copy EDID

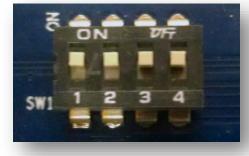
To copy the EDID information from output 3 to input 1, transmit the following command:

EDIDM03B01.

#### Advanced EDID

The FLX-HO4A and FLX-BO4A support [2] EDID Copy modes; FULL copy and HYBRID copy. The copy mode can be set by output. On each card, you will find [4] DIP switches near the back of the PCBA (card must be removed from matrix). Each DIP switch corresponds to an output of the card. Set the DIP switches ON for FULL copy mode. Set the DIP switches OFF for HYBRID copy mode.





When the output is set to HYBRID, the EDID table that is copied to the input comes from two locations. The video information, including Preferred Native Timing is retrieved from the display (sink) that is connected to the output. The audio information is overwritten by a 48kHz PCM stereo audio preset. Copying EDID with this HYBRID mode will ensure that all your sources output a format that is compatible with the audio de-embedding circuit.



# **Front Panel and IR Remote Operation**

## **Basic Routing**

To set a route using the front panel of the FLX-88:

- 1. Press the desired input button (source).
- 2. Press the AV button.
- 3. Press the desired output button (display).

To route video and audio from input 4 to output 5:

- 1. Press input 4.
- 2. Press AV.
- 3. Press output 5.

## **Advanced Routing**

To route video and audio from input 3 to all outputs:

- 1. Press input 3.
- 2. Press ALL.

To route video and audio from each input to its corresponding output (1 to 1, 2 to 2, through 8 to 8):

- 1. Press ALL.
- 2. Press THROUGH.

## IR Remote Operation

The buttons on the IR remote are identical to the buttons on the front panel of the FLX-88. The IR routing commands are identical to the front panel commands.

See Page 8 for the button layout of the IR remote.



# **Third Party Control Setup**

## TCP/IP (Firmware v1.6.4 and below)

## IP Address Setup via Web Browser

Configuring the TCP/IP port is done via a web browser interface. A crossover cable is required for the initial setup. The default IP address is printed on a sticker on the side of the FLX-88.

- 1. Configure the computer to use the same network prefix as the IP address assigned to the matrix. For example, the IP address of the matrix is 192.168.0.178. Set the computer to use a static IP address within the same network range, such as 192.168.0.42.
- 2. Connect the crossover cable to the computer and to the TCP/IP port on the FLX-88.
- 3. Open up Internet Explorer (Firefox, Chrome, and Safari crop the configuration options).



4. Go to the IP address printed on the sticker, which will take you to the Login screen.



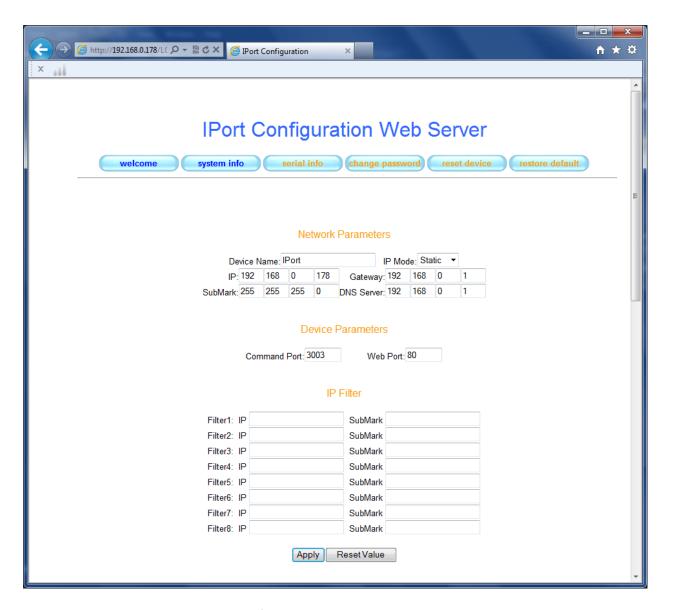
Web Server!

The Default password is "88888".

Server



- 5. Press the LOGIN button. Pressing the Enter key will give a bad password error.
- 6. Click the System Info button to change the IP address.



- 7. Changing the dropdown option from Static to DHCP will allow the FLX-88 to automatically obtain an IP address from a DHCP server on the network.
- 8. For a static IP, enter the IP address, Gateway, and DNS Server information provided by your Network Administrator.
- 9. Click Apply for the changes to take effect.



## Access the Web Browser with Defined IP Address

- 1. Remove the crossover cable between the computer and the FLX-88.
- 2. Restore the computer to the previous network settings.
- 3. Connect the computer and the matrix to the network.
- 4. Using Internet Explorer, enter the IP address for the matrix to access the browser interface.

## Additional Options in Web Browser

- 1. Serial Info Adjusts TCP/IP specific settings, including the default port (4001).
  - a. Changing the baud rate settings has no effect on the RS232 port of the FLX-88.
  - b. The baud rate setting must remain at 9600.
- 2. Change Password Changes the password of the matrix.
- 3. Reset Device Resets all changes to the default settings except for the IP address of the matrix.
- 4. Restore Default Resets all changes to the default settings including the IP address.

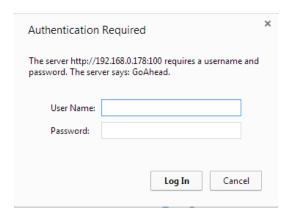


## TCP/IP (Firmware v1.6.5 and above)

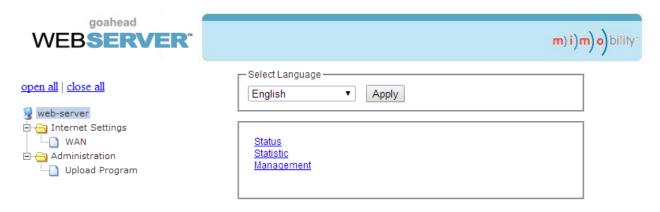
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Configuring the TCP/IP port is done via a web browser interface. A crossover cable is required for the initial setup. The default IP address is printed on a sticker on the side of the FLX-88.

- 1. Configure the computer to use the same network prefix as the IP address assigned to the matrix. For example, the IP address of the matrix is 192.168.0.178. Set the computer to use a static IP address within the same network range, such as 192.168.0.42.
- 2. Connect the crossover cable to the computer and to the TCP/IP port on the FLX-88.
- 3. Open up any internet web browser.
- 4. Go to the IP address printed on the sticker directed to port 100, which will take you to the Login screen (192.168.0.178:100).

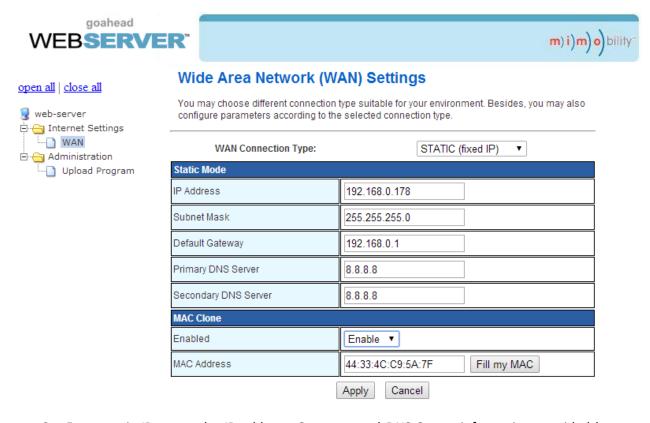


- 5. The default User Name is *admin* and the default Password is *admin*.
- **6.** Press the *Log In* button.
- 7. Expand the Internet Settings folder and click WAN.





8. Changing the *WAN Connection Type* dropdown option from Static to DHCP will allow the FLX-88 to automatically obtain an IP address from a DHCP server on the network.



- 9. For a static IP, enter the IP address, Gateway, and DNS Server information provided by your Network Administrator. Adjusting values for MAC Clone will revert to the original MAC address.
- 10. Click Apply for the changes to take effect.



## Access the Web Browser with Defined IP Address (Firmware v1.6.5 and above)

- 1. Remove the crossover cable between the computer and the FLX-88.
- 2. Restore the computer to the previous network settings.
- 3. Connect the computer and the matrix to the network.
- 4. Using a web browser, enter the IP address for the matrix directed to port 100 to access the browser interface.

## Additional Options in Web Browser

- 1. web-server: Status Displays system up time and matrix network settings in Internet Configurations table.
- 2. *web-server: Statistic* Displays network communication statistics.
- 3. web-server: Management Allows changing of Administrator account name (default is admin) and password (default is admin). Other settings have no effect on matrix operation as of firmware version 1.6.5.
- 4. Administration: Upload Program Page to upload future firmware updates to the matrix.

## RS232 Connection

The RS232 control port requires a standard straight-through serial cable for operation. The default settings for the RS232 port are:

- 9600 baud
- 8 Data Bits
- 1 Stop Bit
- Parity = none



# **RS232 and TCP/IP Commands**

RS232 Settings: 9600 baud, 8 Data bits, 1 Stop bit, Parity = None

TCP/IP Settings: User defined IP address, port 4001

There is either a period (.) or a semicolon (;) at the end of each command. These characters must be present for the command to process correctly.

There are no spaces between any of the characters in the command string.

xx = Input Number (input 2 would be 02)

yy =Output Number (output 3 would be 03)

<CR> = Carriage return (Hex 0D)

<LF> = Line Feed (Hex 0A)

## **Routing Commands**

Description	Command	Response
Route input xx to output yy	xxByy.	AV: xx->0yy <cr><lf></lf></cr>
Route input xx to all outputs	xxAll.	xx To All <cr><lf></lf></cr>
Route inputs to corresponding outputs	All#.	All Through. <cr><lf></lf></cr>
Route input xx to multiple outputs yy Number	xxByy,yy.	xxVyy,yy <cr><lf></lf></cr>
of outputs is unlimited; each output must be		
separated by a comma (,)		
Turn off all outputs	All\$.	All Closed. <cr><lf></lf></cr>
Turn off specific output yy	уу\$.	AV: yy Closed.
		<cr><lf></lf></cr>
Output yy routing status	Statusyy.	V: xx->0yy <cr><lf></lf></cr>
Routing status of all inputs.	Status.	V: xx->0yy <cr><lf></lf></cr>
		(Repeating sequence
		starting with output
		1, output 2, etc.)

## Examples:

02All.	Route Video and Audio from input 2 to all outputs	
04\$.	Turn off Video and Audio for output 4	•
06B03.	Route Video and Audio from input 6 to output 3	
03B02,08.	Route Video and Audio from input 3 to outputs 2 and 8	



# **Preset Commands**

Description	Command	Response
Save the current routing as a preset. Values	Savex.	Save to $Fx$ <cr><lf></lf></cr>
range from 0 through 9		
Recall preset x	Recall $x$ .	Recall From
		Fx <cr><lf></lf></cr>
Clear preset x	Clearx.	

## Examples:

Save4.	Save the current routing as preset 4.
Recall4.	Recall preset 4
Clear4.	Clear preset 4

# System Commands

Description	Command	Response
Power full ON	PWON.	PWON <cr><lf></lf></cr>
Power off (Standby Mode)	PWOFF.	PWOFF <cr><lf></lf></cr>
Retrieve matrix model information	/*Type;	FLX-88 <cr><lf></lf></cr>
Lock the front panel keys	/%Lock;	System
		Locked! <cr><lf></lf></cr>
Unlock the front panel keys	/%Unlock;	System
		Unlock! <cr><lf></lf></cr>
Retrieve matrix firmware version number	/^Version;	Vz.z <cr><lf></lf></cr>
Turn off matrix command feedback	/:MessageOff;	Closed the Message
		Return. <cr><lf></lf></cr>
Turn on matrix command feedback	/:MessageOn;	Enabled the Message
		Return. <cr><lf></lf></cr>

# **EDID Commands**

Description	Command	Response
Copy EDID of output yy to input xx	EDIDMyyBxx.	EDIDMyyBxx. <cr><lf></lf></cr>
Restore factory EDID information	EDIDMInit.	EDIDMInit <cr><lf></lf></cr>

## Example:

EDIDM05B01. Copy EDID of output 5 to input 1	EDIDM05B01.	Copy EDID of output 5 to input 1	
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## **HDCP Commands**

Description	Command	Response
Turn HDCP Compliance off for input xx	/%I/xx:0.	/%I/xx:0. <cr><lf></lf></cr>
Turn HDCP Compliance on for input xx	/%I/xx:1.	/%I/xx:1. <cr><lf></lf></cr>

## Example:

/O.T./O.4.O	T LIDCD Co I'm and afficient A	
/%I/04:0.	Turn HDCP Compliance off for input 4	
,,	raining circomphanice on for inpact.	

# FLX-RI4 Specific Commands (Firmware version 1.6.1 and below)

The input number values are dependent upon which slot the FLX-RI4 is inserted. If the input card is in the first input card slot, the input number values range from 01 through 04. If the input card is in the second input card slot, the input number values range from 05 through 08. xx is the input number value.

Description	Command	Response
Set input xx to VGA input mode	PTN/I/xx:0622%;	xx:0622%. <cr><lf></lf></cr>
When input xx is in VGA mode, auto adjusts the	PTN/I/xx:0606%;	xx:0606%. <cr><lf></lf></cr>
input signal		
Set input xx to component video input mode	PTN/I/xx:0623%;	xx:0623%. <cr><lf></lf></cr>
Set input xx to S-video input mode	PTN/I/xx:0624%;	xx:0624%. <cr><lf></lf></cr>
Set input xx to composite video input mode	PTN/I/xx:0625%;	xx:0625%. <cr><lf></lf></cr>
Set input xx to scale to XGA output (1024x768)	PTN/I/xx:0626%;	xx:0626%. <cr><lf></lf></cr>
Set input xx to scale to 720p output (1280x720)	PTN/I/xx:0627%;	xx:0627%. <cr><lf></lf></cr>
Set input xx to scale to WXGA output (1280x800)	PTN/I/xx:0628%;	xx:0628%. <cr><lf></lf></cr>
Set input xx to scale to 1080p output (1920x1080)	PTN/I/xx:0629%;	xx:0629%. <cr><lf></lf></cr>
Set input xx to VGA input mode	PTN/I/xx:0622%;	xx:0622%. <cr><lf></lf></cr>

## Examples:

PTN/I/05:0622%;	Set input 5 to VGA input mode
PTN/I/05:0606%;	Auto adjust input 5 VGA source
PTN/I/02:0623%;	Set input 2 to component video input mode



## FLX-RI4 Specific Commands (Firmware version 1.6.5 and above)

The input number values are dependent upon which slot the FLX-RI4 is inserted. If the input card is in the first input card slot, the input number values range from 01 through 04. If the input card is in the second input card slot, the input number values range from 05 through 08. xx is the input number value.

Description	Command	Response
Set input xx to VGA input mode	USER/IPTN/I/xx:0622%;	xx:0622%. <cr><lf></lf></cr>
When input xx is in VGA mode, auto	USER/IPTN/I/xx:0606%;	xx:0606%. <cr><lf></lf></cr>
adjusts the input signal		
Set input xx to component video input	USER/IPTN/I/xx:0623%;	xx:0623%. <cr><lf></lf></cr>
mode		
Set input xx to S-video input mode	USER/IPTN/I/xx:0624%;	xx:0624%. <cr><lf></lf></cr>
Set input xx to composite video input	USER/IPTN/I/xx:0625%;	xx:0625%. <cr><lf></lf></cr>
mode		
Set input xx to scale to XGA output	USER/IPTN/I/xx:0626%;	xx:0626%. <cr><lf></lf></cr>
(1024x768)		
Set input xx to scale to 720p output	USER/IPTN/I/xx:0627%;	xx:0627%. <cr><lf></lf></cr>
(1280x720)		
Set input xx to scale to WXGA output	USER/IPTN/I/xx:0628%;	xx:0628%. <cr><lf></lf></cr>
(1280x800)		
Set input xx to scale to 1080p output	USER/IPTN/I/xx:0629%;	xx:0629%. <cr><lf></lf></cr>
(1920x1080)		
Set input xx to VGA input mode	USER/IPTN/I/xx:0622%;	xx:0622%. <cr><lf></lf></cr>

## Examples:

USER/IPTN/I/05:0622%;	Set input 5 to VGA input mode
USER/IPTN/I/05:0606%;	Auto adjust input 5 VGA source
USER/IPTN/I/02:0623%;	Set input 2 to component video input mode

# FLX-HI4A Specific Commands

The input number values are dependent upon which slot the FLX-HI4A is inserted. If the input card is in the first input card slot, the input number values range from 1 through 4. If the input card is in the second input card slot, the input number values range from 5 through 8. xx is the input number value.

Description	Command	Response
Set input xx to analog audio input embedding	AUDIOxx:0.	AUDIOxxI0. <cr><lf></lf></cr>
Set input xx to digital audio (use HDMI audio)	AUDIOxx:1.	AUDIOxxI1. <cr><lf></lf></cr>

#### Examples:

AUDIO07:0.	Use analog audio for input 7.
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# **Troubleshooting**

## Matrix does not power on

Verify power outlet is active. Verify continuity in power cable.

## Cannot view 3D content

Copy EDID from output to input. Verify display is 3D compatible.

Verify source device can output 3D content.

Verify twisted pair cable does not exceed 40 meters if using the FLX-BI4 or FLX-BO4.

### Cannot hear surround sound audio

Copy EDID from output to input.

Verify output can broadcast surround sound audio.

Verify source device is configured to output surround sound audio.

Change input from analog audio to HDMI audio (FLX-HI4A)

## No video from HDBaseT input or output

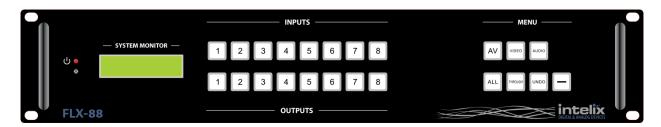
Verify the green link LED on the HDBaseT card is lit solid.

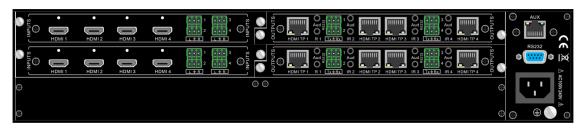




# **Technical Specifications**

## FLX-88 Chassis

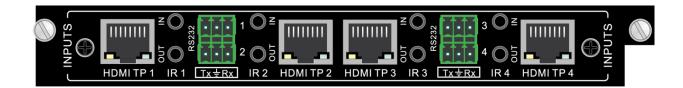




	Technical Specifications
I/O Connections	·
Supported Input Cards	FLX-BI4, FLX-DI4, FLX-HI4, FLX-RI4, FLX-HI4A
Supported Output Cards	FLX-BO4, FLX-DO4, FLX-HO4, FLX-BO4A, FLX-HO4A
Input and Output Card Securing Mechanism	Thumbscrew
Control, Rear Panel	RS232 via DE-9, TCP/IP via 8P8C Connector
Control, Front Panel	Push Button, IR
Chassis and Environmental	
Material	Black Painted Aluminum
Dimensions	483mm x 356mm x 89mm (19 in. x 14 in. x 3.5 in.)
Rack Spacing	2 RU
Shipping Weight	5.9 kg (13 lbs.)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
Power Supply	100-240VAC 50/60 Hz
Power Consumption	60 watts Fully Populated
ESD Protection	15kV
Regulatory	CE, RoHS
Other	
Warranty	2 years
Diagnostic Indicators	LCD output status and power LED
Included Accessories	Installation Guide, IR Remote, RS232 Cable, Power Cable, Modular Metal Blank (4 ea), Rubber Feet (4 ea) and Intelix Pocket Screwdriver.



# FLX-BI4



### In Four (4) 8P8C port (Shielded RJ45)  ### IR In Four (4) 3.5 mm TS (Requires DIGIB-EVE)  ### IR Out Four (4) 3.5 mm TS (Requires DIGIB-EWT)  ### ROUT Four Four Four Four Four Four Four Four		Technical Specifications
HDBaseT Port   Four (4) 8P8C port (Shielded RJ45)   IR In   Four (4) 3.5 mm TS (Requires DIGIB-EVE)   IR Out   Four (4) 3.5 mm TS (Requires DIGIB-EVE)   RS232   Four (4) 3 pole Euroblock Connectors   Supported Audio, Video and Control   Maximum Video Compatibility at 70 m   Deep Color 36/30/24 Bit at 1080p   Maximum Video Compatibility at 40 m   Deep Color 48 Bit at 1080p, 30   Video Compliance   HDMI and HDCP   Embedded Audio   Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio   IR Carrier Frequency Range   33-55kHz at 5 volts   RS232 Baud Rate   Up to 115200 baud   HDBaseT Signal Characteristics   Maximum Distance   70 m   Cable Requirements   Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-5688 crimp pattern   Bandwidth   10.2 Gbps   Gain   0 dB - 10 dB at 100 MHz   Resolution Range   800x600 - 1920x1200   Signal to Noise Ratio (SNR)   > 70 dB at 100 MHz   Resolution Range   800x600 - 1920x1200   Signal to Noise Ratio (SNR)   > 70 dB at 100 MHz   Return Loss   <-30 dB at 5 kHz   Total Harmonic Distortion (THD)   <-0.005% at 1 kHz   Min-Max Signal Level   -10° to 40° (C +32° to +10.4° F)   Differential Phase Error   ±10° at 135 MHz over 100 m   Chassis and Environmental   Construction   Plug-in card with keyed black metal plate   Shipping Weight   0.43 kg (0.95 lbs.)   Operating Temperature   0° to +40° C (+32° to +10.4° F)   Operating Temperature   0° to +40° C (+32° to +10.4° F)   Storage Humidity   20% to 90%, Non-condensing   Other   Warranty   Marranty   2 years   Marris Switcher Compatibility   FLX-8X8A, FLX-88, FLX-81, FLX-1616, FLX-3232   DiGil-HDBOS-5, DIGI-HDE-5, DIGI-P123, DIGI-P52, ASW-WP   DIGIB-ENTT   DIGIB-ENTT	1/0.0	reclinical specifications
R In	•	
IR Out Four (4) 3.5 mm TRS (Requires DIGIB-EMT) RS232 Four (4) 3 pole Euroblock Connectors  Supported Audio, Video and Control  Maximum Video Compatibility at 70 m Deep Color 36/30/24 Bit at 1080p  Maximum Video Compatibility at 40 m Deep Color 48 Bit at 1080p, 30  Video Compliance HDMI and HDCP  Embedded Audio Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio  IR Carrier Frequency Range 33-355kHz at 5 volts RS232 Baud Rate Up to 115200 baud  HDBaseT Signal Characteristics  Maximum Distance 70 m Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern Bandwidth 10.2 Gbps Gain 0 dB = 10 dB at 100 MHz Resolution Range 800x600 = 1920x1200  Signal to Noise Ratio (SNR) > 70 dB at 100 MHz over 100 m  Return Loss < -30 dB at 5 KHz Total Harmonic Distortion (THD) < 0.005% at 1 KHz Min-Max Signal Level < 0.3 Y = 1.45 Vp-p Differential Phase Error 110° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate Shipping Weight 0.43 kg (0.95 lbs.) Operating Temperature 0° to 4-40° C (+32° to +104° F) Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232 HDBaseT Transmitter (A/V Only) DIGI-HDGo-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP Information Informati		
RS232   Four (4) 3 pole Euroblock Connectors		, , , , , , , , , , , , , , , , , , , ,
Supported Audio, Video and Control  Maximum Video Compatibility at 70 m  Maximum Video Compatibility at 70 m  Maximum Video Compatibility at 40 m  Deep Color 48 Bit at 1080p  Video Compliance  Embedded Audio  IR Carrier Frequency Range  B 33-55kHz at 5 volts  R S232 Baud Rate  Up to 115200 baud  HDBaseT Signal Characteristics  Maximum Distance  Cable Requirements  Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern  Bandwidth  10.2 Gbps  Gain  O dB - 10 dB at 100 MHz  Resolution Range  Signal to Noise Ratio (SNR)  P 70 dB at 100 MHz over 100 m  Return Loss  Total Harmonic Distortion (THD)  Viferential Phase Error  Chassis and Environmental  Construction  Plug-in card with keyed black metal plate  Shipping Weight  O 43 kg (0.95 lbs.)  Operating Temperature  O" to +40° C (+32° to +104° F)  Storage Humidity  2 w to 90%, Non-condensing  Warranty  P Ly Emitse  PLS-88A FLX-88, FLX-88, FLX-3232  HDBaseT Transmitter (A/V only)  DIGI-HDDO-S  Infared (IR) Emitter  DIGIB-EMT		
Maximum Video Compatibility at 40 m  Maximum Video Compatibility at 40 m  Maximum Video Compatibility at 40 m  Deep Color 48 Bit at 1080p, 3D  Wideo Compliance  Embedded Audio  IV to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio  IR Carrier Frequency Range  R5232 Baud Rate  Up to 115200 baud  HDBaseT Signal Characteristics  Maximum Distance  70 m  Cable Requirements  Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-5688 crimp pattern  Bandwidth  10.2 Gbps  Gain  0 dB – 10 dB at 100 MHz  Resolution Range  800x600 – 1920x1200  Signal to Noise Ratio (SNR)  70 dB at 100 MHz over 100 m  Return Loss  Total Harmonic Distortion (THD)  40.005% at 1 KHz  Total Harmonic Distortion (THD)  Min-Max Signal Level  Construction  Plug-in card with keyed black metal plate  Shipping Weight  Operating Temperature  Operating Temperature  Operating Temperature  Operating Temperature  -10° to +40° C (+32° to +104° F)  Storage Temperature  -10° to +60° C (+14° to +140° F)  Storage Humidity  2 years  Matrix Switcher Compatibility  FLX-8X8A, FLX-88, FLX-1616, FLX-3232  Infrared (IR) Emitter  Digis-EMT		Four (4) 3 pole Euroblock Connectors
Maximum Video Compatibility at 40 m Video Compliance Embedded Audio Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio IR Carrier Frequency Range RS232 Baud Rate Up to 115200 baud HDBaseT Signal Characteristics Maximum Distance Cable Requirements Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern Bandwidth 10.2 Gbps Gain Od B - 10 dB at 100 MHz Resolution Range Signal to Noise Ratio (SNR) Return Loss - 70 dB at 100 MHz over 100 m Return Loss - 70 dB at 100 MHz over 100 m Return Loss - 70 dB at 100 MHz over 100 m Return Loss - 70 dB at 5 MHz - 70 dB at 100 MHz over 100 m Return Loss - 70 dB at 5 MHz - 70 dB at 100 MHz over 100 m Return Loss - 70 dB at 5 MHz - 70 dB at 100 MHz - 70 dB at 1	Supported Audio, Video and Control	
Video Compliance Embedded Audio Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio IR Carrier Frequency Range RS232 Baud Rate Up to 115200 baud  HDBaseT Signal Characteristics Maximum Distance 70 m Cable Requirements Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-5688 crimp pattern Bandwidth 10.2 Gbps Gain 0 dB – 10 dB at 100 MHz Resolution Range 800x600 – 1920x1200 Signal to Noise Ratio (SNR) > 70 dB at 100 MHz over 100 m Return Loss < -30 dB at 5 KHz Total Harmonic Distortion (THD) < 0.005% at 1 KHz Min-Max Signal Level 0 ifferential Phase Error  Chasis and Environmental Construction Plug-in card with keyed black metal plate Shipping Weight 0 As kg (0.95 lbs.) Operating Temperature 0° to +40° C (+32° to +104° F) Operating Temperature 10° to +60° C (+14° to +140° F) Storage Temperature 10° to +60° C (+14° to +140° F) Storage Temperature  Warranty 2 years Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232 HDBaseT Transmitter (A/V and Control) Infrared (IR) Emitter DIGIB-EMT	Maximum Video Compatibility at 70 m	Deep Color 36/30/24 Bit at 1080p
Embedded Audio  IR Carrier Frequency Range  RS232 Baud Rate  Up to 115200 baud  HDBaseT Signal Characteristics  Maximum Distance  Cable Requirements  Bandwidth  10.2 Gbps  Gain  Resolution Range  800x600 - 1920x1200  Signal to Noise Ratio (SNR)  Return Loss  Total Harmonic Distortion (THD)  Differential Phase Error  Differential Phase Error  Chassis and Environmental  Construction  Shipping Weight  Operating Temperature  Operating Humidity  20% to 90%, Non-condensing  Storage Humidity  Other  Warranty  Marix Switcher Compatibility  HDBaseT Transmitter (A/V anly)  Infrared (IR) Emitter  DIGIB-EMT	Maximum Video Compatibility at 40 m	Deep Color 48 Bit at 1080p, 3D
IR Carrier Frequency Range RS232 Baud Rate Up to 115200 baud  HDBaseT Signal Characteristics  Maximum Distance Cable Requirements Bandwidth 10.2 Gbps Gain Odb = 10 dB at 100 MHz Resolution Range Signal to Noise Ratio (SNR) Return Loss Total Harmonic Distortion (THD) Oifferential Phase Error Differential Phase Error Differential Phase Error  Chassis and Environmental Construction Shipping Weight Operating Temperature Operating Temperature Operating Humidity Storage Temperature 10° to 440° C (+13° to +140° F) Storage Temperature 20% to 90%, Non-condensing Other  Warranty Warranty Mare Mas Mire Age (AV and Control) Infrared (IR) Emitter DIGIB-EMT  Up to 115200 baud  70 m Assis And Environ  10° to 160° C, JuG-P123, DIGI-P123, DIGI-P123, DIGI-P123, ASW-WP  HDBaseT Transmitter (A/V and Control) Infrared (IR) Emitter DIGIB-EMT	Video Compliance	HDMI and HDCP
RS232 Baud Rate Up to 115200 baud  HDBaseT Signal Characteristics  Maximum Distance 70 m  Cable Requirements Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern Bandwidth 10.2 Gbps  Gain 0 dB – 10 dB at 100 MHz  Resolution Range 800x600 – 1920x1200  Signal to Noise Ratio (SNR) > 70 dB at 100 MHz over 100 m  Return Loss < -30 dB at 5 KHz  Total Harmonic Distortion (THD) < 0.005% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 2 years  Matrix Switcher Compatibility FLX-888A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HDF0-S, DIGI-HDE-S, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V only) DIGI-HDF0-S, DIGI-PDE-S, DIGI-P52, ASW-WP  Infrared (IR) Emitter DIGIB-EMT	Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
HDBaseT Signal CharacteristicsMaximum Distance70 mCable RequirementsSolid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp patternBandwidth10.2 GbpsGain0 dB – 10 dB at 100 MHzResolution Range800x600 – 1920x1200Signal to Noise Ratio (SNR)> 70 dB at 100 MHz over 100 mReturn Loss< -30 dB at 5 KHz	IR Carrier Frequency Range	33-55kHz at 5 volts
Maximum Distance70 mCable RequirementsSolid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp patternBandwidth10.2 GbpsGain0 dB – 10 dB at 100 MHzResolution Range800x600 – 1920x1200Signal to Noise Ratio (SNR)> 70 dB at 100 MHz over 100 mReturn Loss< -30 dB at 5 KHz	RS232 Baud Rate	Up to 115200 baud
Cable Requirements  Bandwidth  10.2 Gbps  Gain  0 dB - 10 dB at 100 MHz  Resolution Range  800x600 - 1920x1200  Signal to Noise Ratio (SNR)  70 dB at 100 MHz over 100 m  Return Loss  100.5% at 1 KHz  Total Harmonic Distortion (THD)  Chassis and Environmental  Construction  Shipping Weight  Operating Temperature  Operating Humidity  Storage Temperature  Operating Humidity  Storage Humidity  Other  Warranty  Matrix Switcher Compatibility  HDBaseT Transmitter (A/V Only)  Infrared (IR) Emitter  DIGB - 10 dB at 100 MHz  A0 MHz  A1 MHz  A0 MHz  A1 MH	HDBaseT Signal Characteristics	
Bandwidth 10.2 Gbps Gain 0 dB – 10 dB at 100 MHz Resolution Range 800x600 – 1920x1200  Signal to Noise Ratio (SNR) > 70 dB at 100 MHz over 100 m  Return Loss < 30 dB at 5 KHz  Total Harmonic Distortion (THD) < 0.005% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD6C-S, DIGI-HDE-S, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Maximum Distance	70 m
Gain 0 dB – 10 dB at 100 MHz  Resolution Range 800x600 – 1920x1200  Signal to Noise Ratio (SNR) > 70 dB at 100 MHz over 100 m  Return Loss < -30 dB at 5 KHz  Total Harmonic Distortion (THD) < 0.05% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Resolution Range 800x600 – 1920x1200  Signal to Noise Ratio (SNR) > 70 dB at 100 MHz over 100 m  Return Loss < -30 dB at 5 KHz  Total Harmonic Distortion (THD) < 0.005% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Bandwidth	10.2 Gbps
Signal to Noise Ratio (SNR) >70 dB at 100 MHz over 100 m  Return Loss < -30 dB at 5 KHz  Total Harmonic Distortion (THD) < 0.005% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter	Gain	0 dB – 10 dB at 100 MHz
Return Loss < -30 dB at 5 KHz  Total Harmonic Distortion (THD) < 0.005% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter	Resolution Range	800x600 - 1920x1200
Total Harmonic Distortion (THD) < 0.005% at 1 KHz  Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter	Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m
Min-Max Signal Level < 0.3 V – 1.45 Vp-p  Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate  Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F)  Operating Humidity 20% to 90%, Non-condensing  Storage Temperature -10° to +60° C (+14° to +140° F)  Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Return Loss	< -30 dB at 5 KHz
Differential Phase Error ±10° at 135 MHz over 100 m  Chassis and Environmental  Construction Plug-in card with keyed black metal plate Shipping Weight 0.43 kg (0.95 lbs.) Operating Temperature 0° to +40° C (+32° to +104° F) Operating Humidity 20% to 90%, Non-condensing Storage Temperature -10° to +60° C (+14° to +140° F) Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232 HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP HDBaseT Transmitter (A/V Only) DIGI-HD70-S Infrared (IR) Emitter DIGI-EMT	Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Construction Plug-in card with keyed black metal plate Shipping Weight 0.43 kg (0.95 lbs.) Operating Temperature 0° to +40° C (+32° to +104° F) Operating Humidity 20% to 90%, Non-condensing Storage Temperature -10° to +60° C (+14° to +140° F) Storage Humidity 20% to 90%, Non-condensing Other  Warranty 2 years Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232 HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP HDBaseT Transmitter (A/V Only) DIGI-HD70-S Infrared (IR) Emitter DIGI-EMT	Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Construction Plug-in card with keyed black metal plate Shipping Weight 0.43 kg (0.95 lbs.)  Operating Temperature 0° to +40° C (+32° to +104° F) Operating Humidity 20% to 90%, Non-condensing Storage Temperature -10° to +60° C (+14° to +140° F) Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP HDBaseT Transmitter (A/V Only) DIGI-HD70-S Infrared (IR) Emitter DIGI-EMT	Differential Phase Error	±10° at 135 MHz over 100 m
Shipping Weight  O,43 kg (0.95 lbs.)  Operating Temperature  O° to +40° C (+32° to +104° F)  Operating Humidity  20% to 90%, Non-condensing  Storage Temperature  -10° to +60° C (+14° to +140° F)  Storage Humidity  20% to 90%, Non-condensing  Other  Warranty  2 years  Matrix Switcher Compatibility  FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control)  HDBaseT Transmitter (A/V Only)  DIGI-HD70-S  Infrared (IR) Emitter  DIGIB-EMT	Chassis and Environmental	
Operating Temperature O° to +40° C (+32° to +104° F) Operating Humidity 20% to 90%, Non-condensing Storage Temperature -10° to +60° C (+14° to +140° F) Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232 HDBaseT Transmitter (A/V and Control) HDBaseT Transmitter (A/V Only) DIGI-HD70-S Infrared (IR) Emitter DIGIB-EMT	Construction	Plug-in card with keyed black metal plate
Operating Humidity  20% to 90%, Non-condensing  Storage Temperature  -10° to +60° C (+14° to +140° F)  Storage Humidity  20% to 90%, Non-condensing  Other  Warranty  2 years  Matrix Switcher Compatibility  FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control)  HDBaseT Transmitter (A/V Only)  DIGI-HD70-S  Infrared (IR) Emitter  DIGIB-EMT	Shipping Weight	0.43 kg (0.95 lbs.)
Storage Temperature -10° to +60° C (+14° to +140° F) Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232 HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP HDBaseT Transmitter (A/V Only) DIGI-HD70-S Infrared (IR) Emitter DIGIB-EMT	Operating Temperature	0° to +40° C (+32° to +104° F)
Storage Humidity 20% to 90%, Non-condensing  Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Operating Humidity	20% to 90%, Non-condensing
Other  Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Storage Temperature	-10° to +60° C (+14° to +140° F)
Warranty 2 years  Matrix Switcher Compatibility FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control) DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP  HDBaseT Transmitter (A/V Only) DIGI-HD70-S  Infrared (IR) Emitter DIGIB-EMT	Storage Humidity	20% to 90%, Non-condensing
Matrix Switcher Compatibility  FLX-8X8A, FLX-88, FLX-1616, FLX-3232  HDBaseT Transmitter (A/V and Control)  HDBaseT Transmitter (A/V Only)  DIGI-HD70-S  Infrared (IR) Emitter  DIGIB-EMT	Other	
HDBaseT Transmitter (A/V and Control)  HDBaseT Transmitter (A/V Only)  DIGI-HD70-S  Infrared (IR) Emitter  DIGIB-EMT	Warranty	2 years
HDBaseT Transmitter (A/V Only)  Infrared (IR) Emitter  DIGI-HD70-S  DIGIB-EMT	Matrix Switcher Compatibility	FLX-8X8A, FLX-88, FLX-1616, FLX-3232
HDBaseT Transmitter (A/V Only)  Infrared (IR) Emitter  DIGI-HD70-S  DIGIB-EMT	HDBaseT Transmitter (A/V and Control)	DIGI-HD60C-S, DIGI-HDE-S, DIGI-P123, DIGI-P52, ASW-WP
Infrared (IR) Emitter DIGIB-EMT		DIGI-HD70-S
Infrared (IR) Receiver DIGIB-EYE		DIGIB-EMT
	Infrared (IR) Receiver	DIGIB-EYE



## FLX-HI4A



Te	chnical Specifications
I/O Connections	·
HDMI Input	Four (4) HDMI Type A Receptacle Connector
Analog Audio In	Four (4) 3 pole Euroblock Connectors
Supported Audio and Video	•
Maximum Video Compatibility	Deep Color 48/36/30/24 Bit at 1080p, 3D
Video Compliance	HDMI and HDCP (Selectable)
HDMI Audio Compatibility	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Analog to Digital Conversion Audio Format	PCM 2 Channel 48kHz
Analog Audio	•
Performance per Channel	Unbalanced Stereo Audio, -10 dBV nominal
Pinout (Left to Right)	Left (+), Ground, Right (+)
Input Impedance	>10kΩ
Frequency Response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	< 0.002% from 20 Hz to 20 kHz
HDMI Signal Characteristics	•
Bandwidth	340 MHz (10.2 Gbps)
Gain	0 dB
Resolution Range	Up to 1920x1200
Crosstalk	< -50 dB at 5 KHz
Input Level	TMDS 2.9V/3.3V
Chassis and Environmental	
Construction	Plug-in card with keyed black metal plate
Shipping Weight	0.45 kg (1 lbs.)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Other	
Warranty	2 years
Matrix Switcher Compatibility	FLX-88, FLX-1616, FLX-3232



# FLX-RI4



	Technical Specifications
I/O Connections	reennear specifications
Analog Video Input	Four (4) Female HD15
Supported Video	
Input Signal Types	VGA-UXGA, RGBHV, RGsB, RsGsBs, Component Video, S-Video, & Composite Video
Output Scaling Resolutions	XGA (1024x768), WXGA (1280x800), 720p (1280x720), and 1080p (1920x1080)
Analog Video Input Characteristics	<u> </u>
Bandwidth	340 MHz (10.2 Gbps)
Gain	0 dB
Resolution Range	640x480 - 1920x1080
Crosstalk	<-50 dB at 5 MHz
Input Coupling	AC Coupling Only
Input Level	0.5V – 2.0Vp-p
Chassis and Environmental	•
Construction	Plug-in card with keyed black metal plate
Shipping Weight	0.67 kg (1.36 lbs.)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Included Accessories	
FLX-RBOCA (2 ea)	40 mm (15.75 in.) Male HD15 to three (3) Female RCA Connectors (Red, Green,
	Blue)
FLX-RBOCB (2 ea)	40 mm (15.75 in.) Male HD15 to one (1) Female RCA Connector (Yellow) and
	one (1) Female S-Video Connector
Other	
Warranty	2 years
HDMI Matrix Switcher Compatibility	FLX-8X8A, FLX-88, FLX-1616, FLX-3232



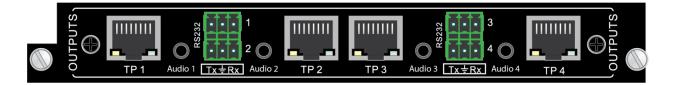
## FLX-DI4



	Technical Specifications
I/O Connections	•
Single Link DVI Input	Four (4) Female DVI 24+5
Supported Video	
Input Signal Types	Single Link DVI-D up to 1920x1200
Video Compliance	HDMI and HDCP
EDID and DDC	Actively Buffered; Supports DVI and HDMI standards
DVI Signal Characteristics	
Bandwidth	340 MHz (10.2 Gbps)
Gain	0 dB
Resolution Range	640x480 – 1920x1200
Crosstalk	<-50 dB at 5 KHz
Input Level	TMDS 2.9V/3.3V
Chassis and Environmental	
Construction	Plug-in card with keyed black metal plate
Shipping Weight	0.37 kg (0.81 lbs.)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Other	
Warranty	2 years
Matrix Switcher Compatibility	FLX-8X8A, FLX-88, FLX-1616, FLX-3232



# FLX-BO4A



	Technical Specifications
I/O Connections	Teermeal Speemeations
HDBaseT Port	Four (4) 8P8C port (Shielded RJ45)
Analog Audio Out	Four (4) 3.5 mm TRS
RS232	Four (4) 3 pole Euroblock Connectors
Supported Audio, Video and Control	Total (1/10 pole 24) objects objects
Maximum Video Compatibility at 70 m	Deep Color 36/30/24 Bit at 1080p
Maximum Video Compatibility at 40 m	Deep Color 48 Bit at 1080p, 3D
Video Compliance	HDMI and HDCP
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
RS232 Baud Rate	Up to 115200 baud
Analog Audio	Op to 113200 5000
Performance per Channel	Unbalanced Stereo Audio, -10 dBV nominal
Pinout	TIP - Left (+), RING – Right (+), SLEEVE - Ground
Output Impedance	50Ω
Frequency Response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	< 0.002% from 20 Hz to 20 kHz
HDBaseT Signal Characteristics	
Maximum Distance	70 m
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Resolution Range	800x600 - 1920x1200
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m
Return Loss	<-30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100 m
Chassis and Environmental	
Construction	Plug-in card with keyed black metal plate
Shipping Weight	0.43 kg (0.95 lbs.)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Other	
Warranty	2 years
Matrix Switcher Compatibility	FLX-88, FLX-1616, FLX-3232
Compatible Receivers (A/V and Control)	DIGI-HDXL-R, DIGI-HDX-R, DIGI-HDE-R, DIGI-HD60C-R
Compatible Receivers (A/V Only)	DIGI-HD60-R, DIGI-HD70-R



## FLX-HO4A



	Technical Specifications
I/O Connections	·
HDMI Input	Four (4) HDMI Type A Receptacle Connector
Analog Audio Out	Four (4) 3 pole Euroblock Connectors
Supported Video	·
Maximum Video Compatibility	Deep Color 48/36/30/24 Bit at 1080p, 3D
Video Compliance	HDMI and HDCP
Analog Audio	
Performance per Channel	Unbalanced Stereo Audio, -10 dBV nominal
Pinout (Left to Right)	Left (+), Ground, Right (+)
Output Impedance	50Ω
Frequency Response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	< 0.002% from 20 Hz to 20 kHz
HDMI Signal Characteristics	
Bandwidth	340 MHz (10.2 Gbps)
Gain	0 dB
Resolution Range	Up to 1920x1200
Crosstalk	<-50 dB at 5 KHz
Input Level	TMDS 2.9V/3.3V
Chassis and Environmental	
Construction	Plug-in card with keyed black metal plate
Shipping Weight	0.45 kg (1 lbs.)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Other	
EDID Copy Mode Selection	Four (4) 2 position DIP switch (one per output)
Warranty	2 years
Matrix Switcher Compatibility	FLX-88, FLX-1616, FLX-3232



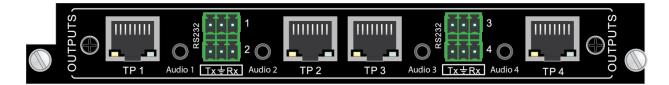
# FLX-DO4



Technical Specifications		
I/O Connections	·	
Single Link DVI Output	Four (4) Female DVI 24+5	
Supported Video	·	
Output Signal Types	Single Link DVI-D up to 1920x1200	
Video Compliance	HDMI and HDCP	
EDID and DDC	Actively Buffered; Supports DVI and HDMI standards	
DVI Signal Characteristics		
Bandwidth	340 MHz (10.2 Gbps)	
Gain	0 dB	
Resolution Range	640x480 - 1920x1200	
Crosstalk	<-50 dB at 5 KHz	
Input Level	TMDS 2.9V/3.3V	
Chassis and Environmental		
Construction	Plug-in card with keyed black metal plate	
Shipping Weight	0.37 kg (0.81 lbs.)	
Operating Temperature	0° to +40° C (+32° to +104° F)	
Operating Humidity	20% to 90%, Non-condensing	
Storage Temperature	-10° to +60° C (+14° to +140° F)	
Storage Humidity	20% to 90%, Non-condensing	
Other		
Warranty	2 years	
Matrix Switcher Compatibility	FLX-8X8A, FLX-88, FLX-1616, FLX-3232	



## FLX-BO4A-XL



	To the dead Constitution	
	Technical Specifications	
I/O Connections		
HDBaseT Port	Four (4) 8P8C port (Shielded RJ45)	
Analog Audio Out	Four (4) 3.5 mm TRS	
RS232	Four (4) 3 pole Euroblock Connectors	
Supported Audio, Video and Control		
Maximum Video Compatibility at 150 m	30/24 Bit at 1080p	
Video Compliance	HDMI and HDCP	
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio	
RS232 Baud Rate	Up to 115200 baud	
Analog Audio		
Performance per Channel	Unbalanced Stereo Audio, -10 dBV nominal	
Pinout	TIP - Left (+), RING – Right (+), SLEEVE - Ground	
Output Impedance	50Ω	
Frequency Response	20 Hz to 20 kHz, ±0.5 dB	
THD + Noise	< 0.002% from 20 Hz to 20 kHz	
HDBaseT Signal Characteristics		
Maximum Distance	70 m	
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern	
Bandwidth	10.2 Gbps	
Gain	0 dB – 10 dB at 100 MHz	
Resolution Range	800x600 - 1920x1200	
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m	
Return Loss	< -30 dB at 5 KHz	
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz	
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p	
Differential Phase Error	±10° at 135 MHz over 100 m	
Chassis and Environmental		
Construction	Plug-in card with keyed black metal plate	
Shipping Weight	0.43 kg (0.95 lbs.)	
Operating Temperature	0° to +40° C (+32° to +104° F)	
Operating Humidity	20% to 90%, Non-condensing	
Storage Temperature	-10° to +60° C (+14° to +140° F)	
Storage Humidity	20% to 90%, Non-condensing	
Other		
Warranty	2 years	
Matrix Switcher Compatibility	FLX-88, FLX-1616, FLX-3232	
Compatible Receivers (A/V and Control)	DIGI-HDXL-R	



# DIGIB-EMT



	Technical Specifications	
Signal Characteristics		
Wide-Band Infrared (IR)	30 KHz to 56 KHz at 5V DC reference	
Physical Characteristics		
Material, Emitter Housing	Deep red translucent plastic	
Dimensions, Emitter Housing	6 mm x 9.5 mm x 15 mm (0.24 in. x 0.37 in. x 0.59 in.)	
Cable Length	2 m (6.56 ft)	
Cable Connector	3.5 mm (1/8 in.) mono (TS) plug	
Shipping Weight	0.5 lbs. (0.23kg)	
Other		
Warranty	2 years	
What's in the Box	(4) DIGIB-EMT	
Compatible Devices	FLX-BI4, FLX-BO4, DIGI-HDE-S, DIGI-HDE-R, DIGI-HD60C-S, DIGI-HD60C-R,	
	DIGI-HD-IR3-S, DIGI-HD-IR3-R, DIGI-HD-IR3-WP-S, DIGI-HD-IR3-WP-R,	
	DIGI-HD-8X8, DIGI-HD-4X8, DIGI-HD-4X4, DIGI-HD-4X2	

## DIGIB-EYE



	Technical Specifications
Signal Characteristics	
Wide-Band Infrared (IR)	30 KHz to 56 KHz at 5V DC reference
Physical Characteristics	
Material, Emitter Housing	Black plastic housing; smoke gray lens housing
Dimensions, Emitter Housing	13.5 mm x 9 mm x 29.5 mm (0.53 in. x 0.35 in. x 1.16 in.)
Cable Length	1 m (3.28 ft)
Cable Connector	3.5 mm (1/8 in.) stereo (TRS) plug
Shipping Weight	0.5 lbs. (0.23kg)
Other	
Warranty	2 years
What's in the Box	(1) DIGIB-EYE (hardware not included)
Compatible Devices	FLX-BI4, FLX-BO4, DIGI-HDE-S, DIGI-HDE-R, DIGI-HD60C-S, DIGI-HD60C-R,
	DIGI-HD-IR3-S, DIGI-HD-IR3-R, DIGI-HD-IR3-WP-S, DIGI-HD-IR3-WP-R



# Thank you for your purchase.

Please contact us with your questions and comments.

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