FLX-44 Technical Specifications

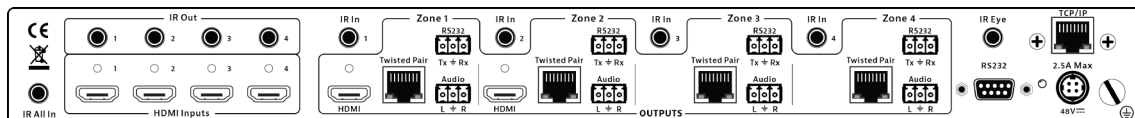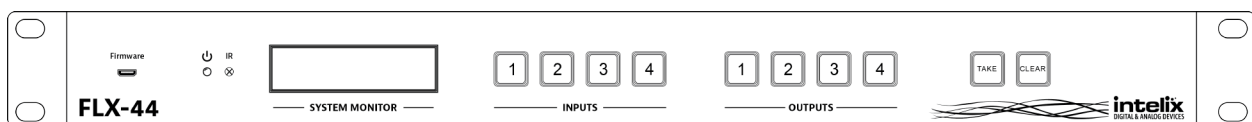**Four Input to Four Output HDBaseT/HDMI Matrix Switcher**

Rev. 141125

The Intelix FLX-44 is a four input by four output HDBaseT/HDMI matrix switcher. The Intelix FLX-44 matrix improves the ease of installation similar to previous Intelix HDMI matrix switchers.

The FLX-44 features HDBaseT twisted pair extension for each output, and simultaneous HDMI on the first two outputs, allowing the same signal to be routed to the HDMI connector and a remote destination with an HDBaseT receiver. The HDBaseT ports support 1080p HDMI video with audio, bi-directional wide-band IR, matrix control via IR, RS232 tunneling, and HDCP up to 60 meters (196 feet). Each HDBaseT output port supplies power to the attached extender, eliminating the need for a power supply at the display end. Each output features a stereo audio de-embedder for connection to amplifiers or DSPs.

The FLX-44 can be controlled via front panel buttons, front panel IR, external IR, remote IR through HDBaseT extenders, RS232, and Ethernet. Clear button caps provide legible text on the front panel, which can be customized for each installation. The matrix includes a simple IR remote control to allow IR switching. This IR remote control can be learned into universal remotes and IR based control systems. An IR All In port is provided, which allow one IR connection to control all four remote displays.

The matrix also features a full command set for RS232 and Ethernet control with third party control systems, plus control via a web browser. RS232 commands to remote displays can also be embedded in the control stream through the matrix from both the RS232 and Ethernet control ports, which will reduce the number of serial ports required for the control system.

The FLX-44 is HDMI compatible and supports up to 2K resolutions, Deep Color, and full 3D capabilities. The matrix features advanced EDID and HDCP handling, including the ability to turn HDCP compliance ON and OFF to ensure maximum functionality with a wide range of sources.

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Technical Specifications

I/O Connections

HDMI Inputs	Four (4) HDMI Type A Receptacle (1 per input)
HDMI Outputs	Two (2) HDMI Type A Receptacle (Outputs 1 and 2 only)
HDBaseT Outputs	Four (4) 8P8C port (Shielded RJ45) (1 per output)
IR Inputs	Four (4) 3.5 mm jack (TRS)
IR All In	One (1) 3.5 mm jack (TRS)
IR Outputs	Four (4) 3.5 mm jack (TS) (1 per output)
IR Eye	One (1) 3.5 mm jack (TRS)
RS232 Tunnel	Four (4) 3-pole Removable Euroblock Connector (3.5mm)
Audio Outputs	Four (4) 3-pole Removable Euroblock Connector (3.5mm)
48V DC Power	One (1) Amphenol 4pin CPC Female (11-4)
Control, Rear Panel	RS232 via DE-9, TCP/IP via 8P8C, IR via 3.5mm TRS
Control, Front Panel	Push Button, IR

Supported Audio, Video and Control

Maximum Video Compatibility at 60 m	Deep Color 36/30/24 Bit at 1080p
Maximum Video Compatibility at 35 m	Deep Color 48 Bit at 1080p, 3D, and 4k x 2k
Supported 3D Formats	Field Alternative (interlaced), Frame Packing, Line Alternative Full, Side-By-Side Half, Side-By-Side Full, 2D + Depth, 2D + Depth + Graphics + Depth
Embedded Audio Compatibility	Up to PCM 5 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
IR Carrier Frequency Range	33-55kHz at 5 volts
Ethernet	100BaseT
RS232 Baud Rate	Up to 115200 baud

HDBaseT Signal Characteristics

Maximum Distance	70m (230 ft)
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
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

Enclosure	Painted Aluminum
Dimensions	435 mm x 235 mm x 44 mm (17.13 in x 9.25 in x 1.73 in)
Rack Spacing	1 RU
Shipping Weight	2.27 kg (5 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

PoE Standard (Twisted Pair [HDBaseT] port) to extender	802.3af
Power Supply Input	100V-240VAC / 1.8A
Power Supply Output	48vDC / 5A
Power Consumption	150 watts (max)
ESD Protection	15kV
Device Regulatory	CE, RoHS
Power Supply Regulatory	UL, FCC, CCC, CE, RoHS

Other

Warranty	2 years
Diagnostic Indicators	LCD output status and power LED
Included Accessories	Installation Guide, IR Remote, RS232 cable, US Power Cable and Power Supply, Two Mounting Brackets with screws, Four Rack Feet with screws, Eight 3-pole Removable Euroblock Connectors (installed on matrix)
Compatible IR Transmitter (IR Emitter)	DIGIB-EMT
Compatible IR Receiver (IR Eye)	DIGIB-EYE
Compatible Receivers (AV Only)	DIGI-HD70-R
Compatible Receivers (AV and Control)	DIGI-HDE-R
Compatible Receivers (AV, Control and Power)	DIGI-HD60C-R

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

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