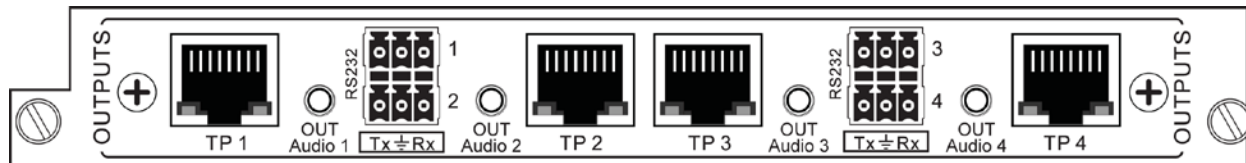# FLX-BO4A Technical Specifications

HDBaseT Output Card with Audio De-Embedding for FLX Series Matrices

Rev. 140814

The FLX-BO4A takes advantage of HDBaseT outputs connect any source device to a remote display, up to 70m away, utilizing standard Cat 5e 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 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 features advanced EDID handling features that ensure video and audio compatibility, such as full copy and hybrid copy functions.

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 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	
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-HDE-R, DIGI-HD60C-R
Compatible Receivers (A/V Only)	DIGI-HD70-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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