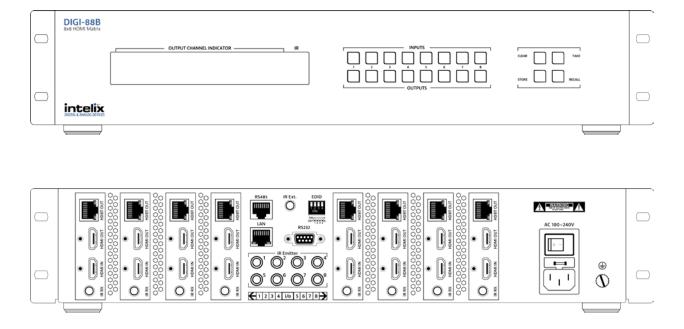# DIGI-88B Technical Specifications

Eight Input to Eight Output HDBaseT Matrix Switcher

Rev. 140813

The Intelix DIGI-88B is an eight input by eight output HDBaseT HDMI matrix switcher. The Intelix DIGI-88B matrix improves the ease of installation similar to previous Intelix HDMI matrix switchers.

The DIGI-88B has dual outputs on each output port, 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, and HDCP. The matrix is HDMI compatible and supports up to 2K resolutions, Deep Color, and full 3D capabilities.

The DIGI-88B can be controlled via front panel buttons, front panel IR, external IR, remote IR through HDBaseT extenders, RS232, RS485, and Ethernet. 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. The matrix also features a full command set for RS232 and Ethernet control with third party control systems.

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Technical Specifications	
I/O Connections	
HDMI Inputs	Eight (8) HDMI Type A Receptacle Connector (1 per input)
HDMI Outputs	Eight (8) HDMI Type A Receptacle Connector (1 per output)
HDBaseT Outputs	Eight (8) 8P8C port (Shielded RJ45) (1 per output)
IR Input	Eight (8) 3.5 mm jack (TRS) (1 per input)
IR Output	Eight (8) 3.5 mm jack (TS) (1 per output)
AC Power Inlet	IEC C14
Control, Rear Panel	RS232 via DE-9, RS485 via 8P8C, TCP/IP via 8P8C, IR via 3.5mm TRS
Control, Front Panel	Push Button, IR
DIP Switch	Four switch DIP
Supported Audio, Video, and Control	
HDTV Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
VESA Video Resolutions	Up to 1920x1200
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 and 3D
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
DIP Switch Modes	1080i/2.0, 1080p 3D/2.0, 1080p/2.0, 1080p/5.1, 1080p/7.1, Copy and Use EDID from Display
Video Compliance	HDMI, HDCP, and CEC (Consumer Electronics Control)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
IR Carrier Frequency Range	33-55kHz at 5 volts
Ethernet	100BaseT
RS232 Baud Rate	9600 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
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 Steel
Dimensions	440 mm x 340 mm x 100 mm (17.32 in x 13.4 in x 3.91 in)
Rack Spacing	2 RU
Shipping Weight	6.85 kg (15.1 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
Power, ESD, and Regulatory	
Power Supply Input	100-240VAC
Power Consumption	70 watts (max)
ESD Protection	15kV
Regulatory	CE, RoHS
Other	
Warranty	2 years
Diagnostic Indicators	LCD output status and power LEDs
Included Accessories	Installation Guide, IR Remote, IR Emitter (8 ea), IR Receiver (8 ea), USB/RS232 adaptor, US Power Cable, Mounting Brackets with screws, Chassis Feet
Compatible Receivers (A/V Only)	DIGI-HD70-R
Compatible Receivers (A/V and IR)	DIGI-HDE-R, 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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