

INT-88HDX Technical Specifications

Eight Input to Eight Output 100m HDBaseT/HDMI Matrix Switcher

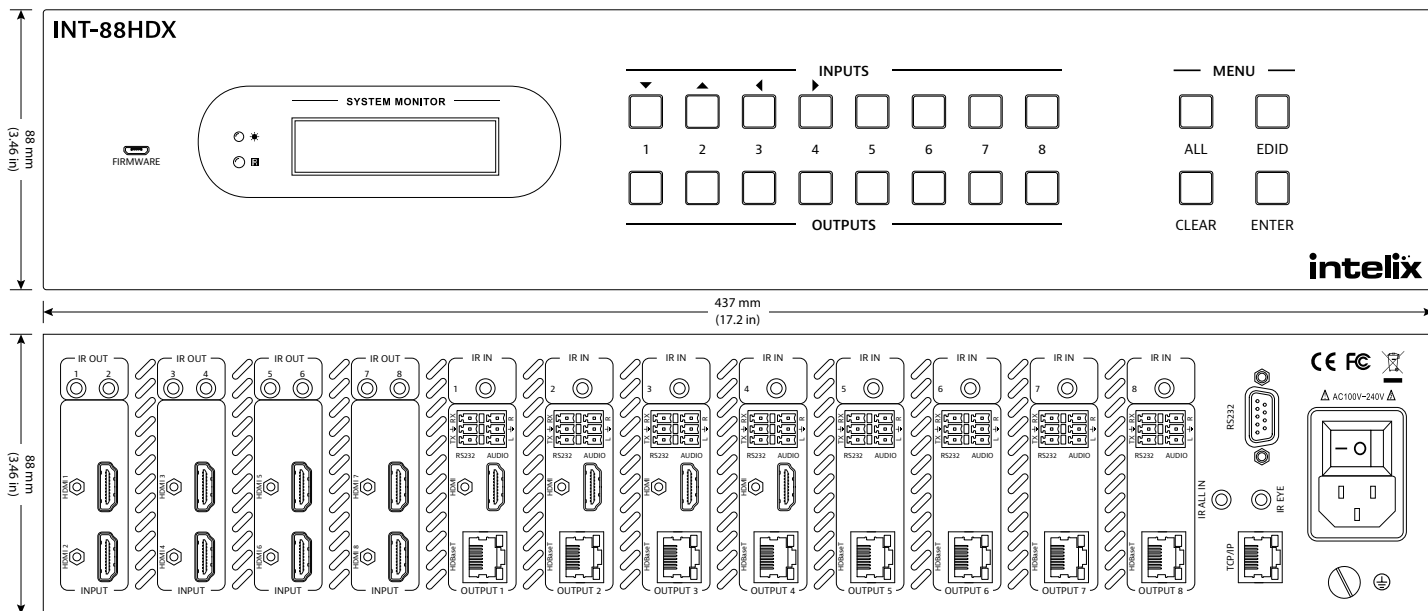
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The Intelix INT-88HDX is an eight input by eight output HDBaseT/HDMI matrix switcher with HDCP 2.2 and 4K/30 video support. The matrix features advanced EDID and HDCP handling, including the ability to turn input HDCP compliance ON and OFF to ensure maximum functionality with a wide range of sources.

The INT-88HDX features HDBaseT twisted pair extension for each output, and simultaneous HDMI on the first three outputs, allowing the same signal to be routed to the HDMI connector and a remote destination with an HDBaseT receiver. The HDBaseT ports support up to 4K/30 HDMI video with audio, bidirectional wide-band IR, matrix control via IR, RS232 tunneling, and HDCP (1.4 and 2.2) up to 100 meters (328 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 analog stereo audio de-embedding and coaxial multichannel audio de-embedding for connection to amplifiers or DSPs.

The INT-88HDX can be controlled via front panel buttons, front panel IR, external IR, remote IR through HDBaseT extenders, RS232, 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. 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 either be tunneled directly to the displays or 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.



Input/Output Connections	
HDMI Inputs	Eight (8) HDMI Type A Receptacle
IR Outputs	Eight (8) 3.5mm TRS
HDMI Outputs (Outputs 1, 2, 3 and 4 only)	Four (4) HDMI Type A Receptacle
HDBaseT Outputs	Eight (8) 8P8C Port (Shielded RJ45 Female)
Analog Audio Outputs	Eight (8) 3-Pole/3.5mm Euroblock
RS232 Tunnel	Eight (8) 3-Pole/3.5mm Euroblock
IR All In	One (1) 3.5mm TRS
IR Eye	One (1) 3.5mm TRS
TCP/IP	One (1) 8P8C Port (Shielded RJ45 Female)
RS232	One (1) DE9 Port Female
Power	One (1) IEC C14
Supported Audio, Video, and Embedded Control	
Video Resolutions	SMPTE: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, UHD/3D Color Depth: 24, 30, 36, 48bit
Maximum Video Compatibility at 100 m	Deep Color 48 Bit at 1080p and 3D, UHD/3D
Maximum Passive HDMI Cable Distance	5 m (16.4 ft)
Video Compliance	HDMI 1.4, HDCP 1.4 and HDCP 2.2
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Analog Audio Pinout	Left, Ground, Right
Embedded RS232 Baud Rate	2400, 4800, 9600, 19200, 38400, and 115200 baud
IR Carrier Frequency Range	33-55kHz at 5 volts
HDBaseT Signal Characteristics	
Maximum Distance	100 m (328ft)
Cable Requirements	Continuous shielded solid core Cat 5e or greater with TIA/EIA-568B crimp pattern (no couplers in-line)
Bandwidth	10.2 Gbps
HDBaseT Chipset	VS100TX
Device Control Parameters	
IR Carrier Frequency Range	33-55kHz at 5 volts
Ethernet	100BaseT
RS232 Baud Rate	9600 baud
Chassis and Environmental	
Enclosure	Painted Aluminum
Dimensions (H x W x D)	88 mm x 437 mm x 380 mm (3.46 in x 17.20 in x 14.96 in) – 2 RU
Shipping Weight	7.45 kg (16.4 lbs.)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
Power, ESD, and Regulatory	
Power Supply	100V-240VAC / 50-60 Hz
Power over Ethernet (PoE) Compatibility	802.3af Alternative A, 15 watts per port, 48V available at remote device
Power Consumption	135 watts (max)
ESD Protection	15kV air, 8kV contact
Product Regulatory	UL, FCC, CE, RoHS
Other	
Standard Warranty	2 years
Diagnostic Indicators	Power LED, System LCD
Included Accessories	Installation Guide, IR Remote with AAA Batteries, IR Eye, Rack Mounting Ears with Screws, Chassis Feet with Screws, US Power Cable, Straight-Through DE9 Male to Female RS232 Cable, Sixteen (16) 3-pole Removable Terminal Blocks
Compatible Receivers (AV and Power)	DIGI-HD60-R (70m)
Compatible Receivers (AV, Control, and Power)	DIGI-HD60C-R (70m), DIGI-HDX-R (100m), INT-HD70-RX (70m), INT-HDX100-RX (100m)
Compatible Receivers (AV and Control)	DIGI-BSR-4K (100m)

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