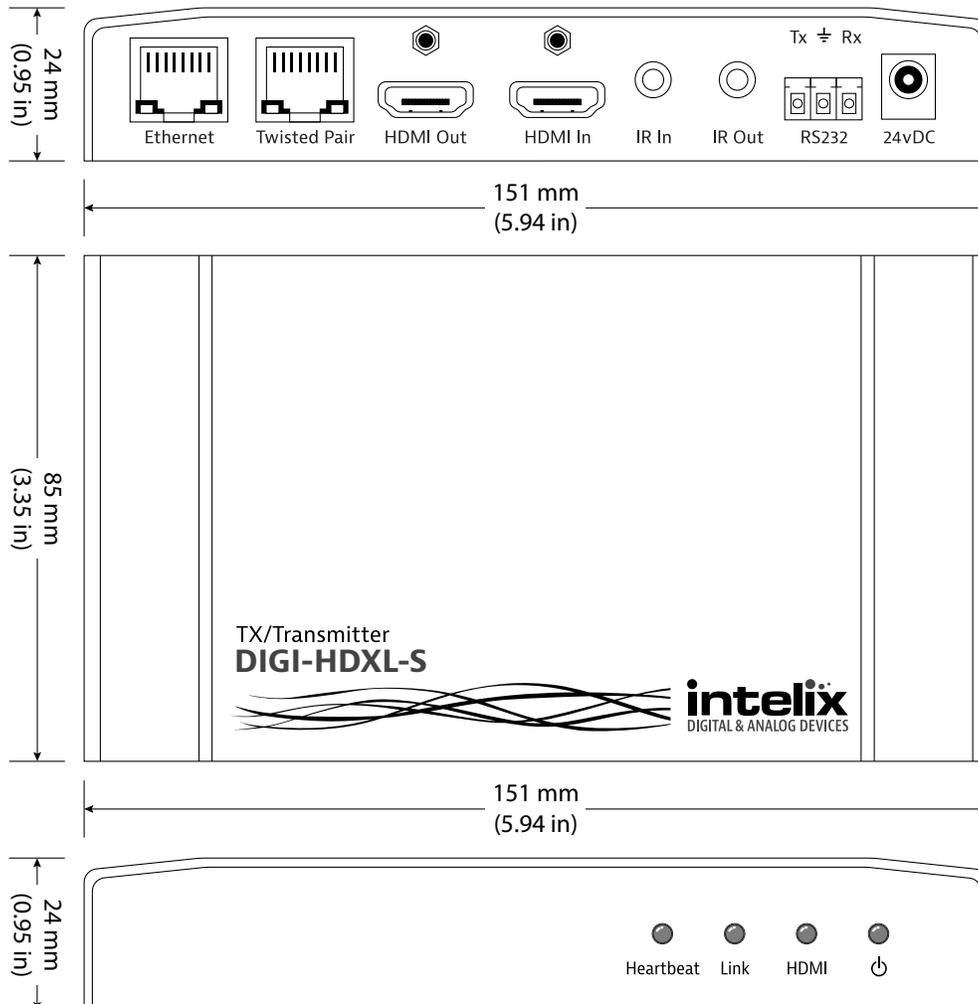# DIGI-HDXL-S Technical Specifications

150m HDMI, IR, RS232, and Ethernet with Flexible Power Transmitter Using HDBaseT

Rev 150126

The Intelix DIGI-HDXL-S extends HDMI over a single cable by incorporating HDBaseT technology. The DIGI-HDXL-S supports 1080p video signals up to 150 meters (492 feet) including multichannel audio. Built-in surge protection and diagnostic LEDs ensure hassle-free and robust installations. Key features of the new extender series include local HDMI output on the transmitter, power over Ethernet (PoE), bidirectional IR, bidirectional RS232, and Ethernet pass-through with a 2-port network switch on the receiver.

The HDMI distribution chip in the DIGI-HDXL-S sends one signal to the HDBaseT output and the other signal to the local HDMI output for a local display. This new feature also allows HDMI source devices that do not support DDC clock stretching (HDMI 1.2 and below) to be extended over the HDBaseT link without issues. Flexible power design allows the DIGI-HDXL series extenders to be powered at either the TX or RX end, and only one power supply is required. The power supply (PS-24D-25) is sold separately. The bidirectional wide-band IR, bidirectional RS232, and Ethernet pass-through capabilities make the DIGI-HDXL compatible with most control systems.

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.

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Input/Output Connections	
HDMI Input	One (1) HDMI Type A Receptacle Connector
HDMI Output	One (1) HDMI Type A Receptacle Connector
Twisted Pair (HDBaseT)	One (1) Shielded RJ45 Female
RS232	One (1) 3-Pole Euroblock connector
Ethernet	One (1) Shielded RJ45 Female
IR Input	One (1) 3.5mm TRS
IR Output	One (1) 3.5mm TS
24V DC Power	One (1) 5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel
Supported Audio, Video, and Control	
Maximum Video Compatibility	Deep Color 24 Bit at 1080p
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	Up to 115200 baud
HDBaseT Signal Characteristics	
Maximum Distance	150 m (492 ft)
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
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	85 mm x 151 mm x 24 mm (3.35 in. x 5.94 in x 0.95 in)
Shipping Weight	0.5 kg (1.1 lbs.)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60° C (+14° to +140° F)
Storage Humidity (Environment)	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
PoE Standard (Twisted Pair [HDBaseT] port) to extender	802.3af
Maximum Power Consumption	22 watts
Power Supply (Not Included)	24vDC / 1.5 Amp
ESD Protection	15kV
Regulatory	CE, RoHS
Other	
Standard Warranty	2 years
Diagnostic Indicators	Heartbeat, Link, HDMI, and power LEDs
Included Accessories	Installation Guide
Compatible Receivers (AV, PoE and Control)	DIGI-HDXL-R
Accessories	
Power Supply	PS-24D-25
IR Emitter	DIGIB-EMT
IR Receiver	DIGIB-EYE

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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