

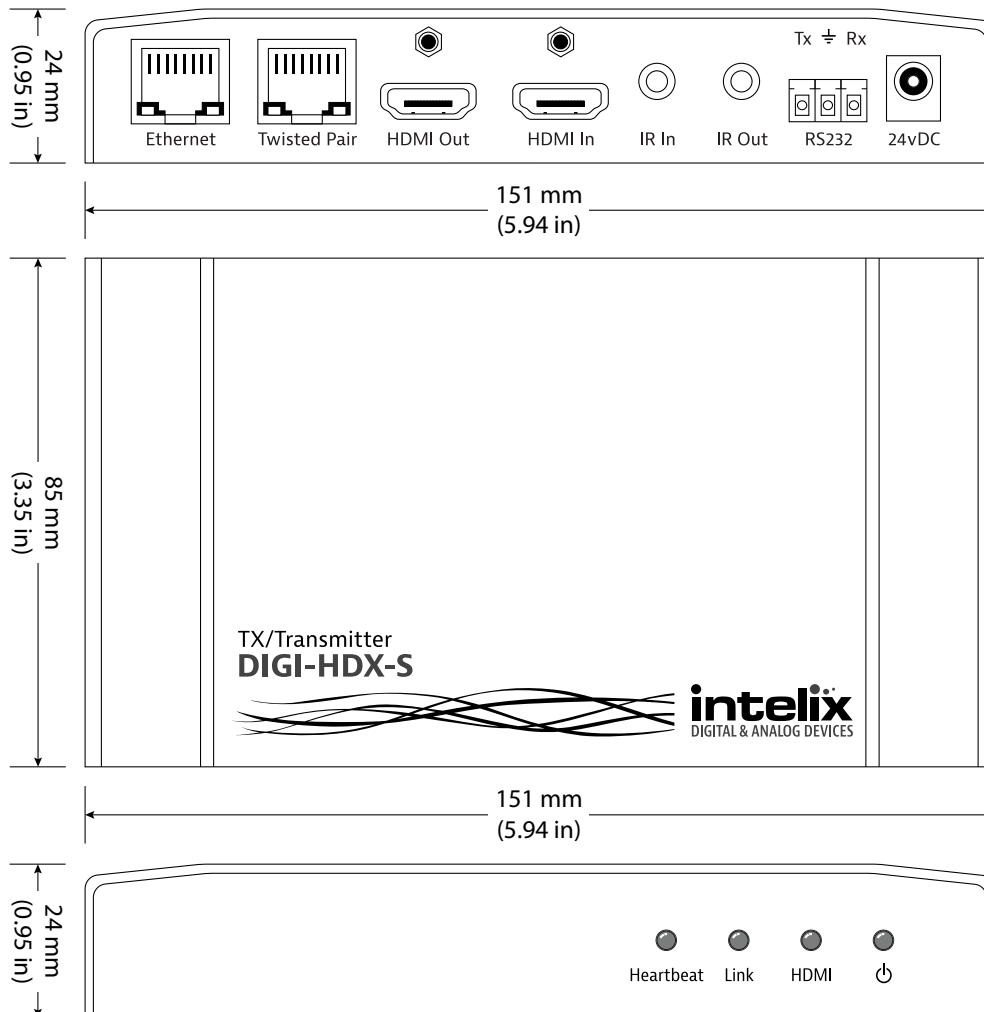
DIGI-HDX-S Technical Specifications

90m HDMI, IR, RS232, and Ethernet with Flexible Power Transmitter Using HDBaseT
Rev 150421

The Intelix DIGI-HDX-S extends HDMI over a single cable by incorporating HDBaseT technology. The DIGI-HDX-S supports 1080p, full 3D or 4k x 2k video signals up to 90 meters (295 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-HDX-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-HDX 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 wideband IR, bidirectional RS232, and Ethernet pass-through capabilities make the DIGI-HDX compatible with most control systems.

The DIGI-HDX series extenders are compatible with all Intelix HDBaseT product offerings and any product that meets the HDBaseT specifications.



| Input/Output Connections | |
|--|---|
| HDMI Input | One (1) HDMI Type A Receptacle |
| HDMI Output | One (1) HDMI Type A Receptacle |
| 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 48/36/30/24 Bit at 1080p, 3D, 4k x 2k (UHD) up to 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2; up to 60 Hz: YCbCr 4:2:0 |
| 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 |
| 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 | 90 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 | 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 and PoE) | DIGI-HD60-R |
| Compatible Receivers (AV and Control) | FLX-BI4 |
| Compatible Receivers (AV, PoE and Control) | DIGI-HDX-R, DIGI-HD60C-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.