

## DIGI-HD70 Installation Guide



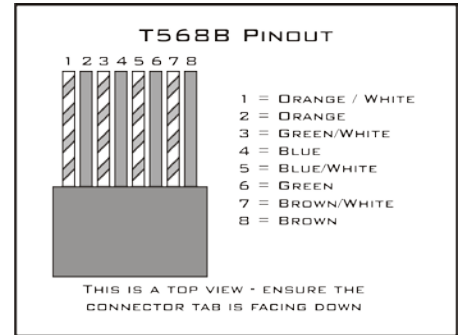
The Intelix DIGI-HD70 extends HDMI over a single twisted pair cable. The DIGI-HD70 supports a 1080p video signal up to 70m, as well as 3D and 4K x 2K signals up to 40m.

Built-in surge protection and diagnostic LEDs ensure hassle-free and robust installations. The DIGI-HD70 incorporates HDBaseT technology.

### Instructions

1. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
2. Connect twisted pair cable between the transmitter (DIGI-HD70-S) and the receiver (DIGI-HD70-R). Ensure T568B straight-thru wiring.
3. Connect HDMI cables between the display and the receiver (DIGI-HD70-R).
4. Connect HDMI cables between the source and the transmitter (DIGI-HD70-S).
5. Connect the included power supplies to the transmitter and receiver.
6. Power on attached audio/video devices.

**Twisted Pair Wiring** - Use T568B wiring for Cat5e/6 connection between send and receive units.



### Important notice:

- Do not attempt to disassemble or alter the extender housing. There are no user-serviceable parts inside the unit. Doing so will void your warranty.
- To minimize the possibility of equipment damage from electrostatic discharge (ESD), all source and destination equipment must be powered off during installation.
- Do not connect the extender to a telecommunication outlet wired to unrelated equipment. Doing so may damage the unit or any connected equipment. Ensure all connected twisted pair cabling is straight-through (point-to-point).
- Allow proper ventilation to reduce the risk of thermal failure.

### Troubleshooting

Symptom	Possible Solutions
No signal Status LED is off	Verify that both ends of the twisted pair cables use T568B crimp pattern.  Verify HDMI cables and source and destination HDMI ports are operational.
No signal	Verify the power supplies are connected to both the send and receive baluns.  Verify the power LEDs on both the send and receive units are brightly illuminated.
Unusual colors in the video	Power off the destination device and power it back on to force renegotiation.  Unplug and re-plug the HDMI cable from receive to force renegotiation.

Technical Specifications	
<b>I/O Connections</b>	
HDMI	One (1) HDMI Type A Receptacle
Twisted Pair	One (1) 8P8C port (Shielded RJ45)
5V DC Power	One (1) 5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel
<b>Supported Audio and Video</b>	
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, and 4k x 2k
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
<b>HDBaseT Signal Characteristics</b>	
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
<b>Chassis and Environmental</b>	
Enclosure	Painted steel
Dimensions	110 mm x 76 mm x 24 mm (4.33 in x 2.99 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
<b>Power, ESD, and Regulatory</b>	
Maximum Power Consumption	4 watts (S), 11 watts (R)
Power Supply	5vDC / 2A
ESD Protection	15kV
Regulatory	CE, RoHS
<b>Other</b>	
Standard Warranty	2 Years
Diagnostic Indicators	Link and power LEDs
DIGI-HD70-R Compatible Transmitters	DIGI-HD70-S, DIGI-HD60C-S, DIGI-HDE-S, FLX-BO4, FLX-BO4A, ASW-WP, DIGI-88B, DIGI-44B, DIGI-P123, DIGI-P52
DIGI-HD70-S Compatible Receivers	DIGI-HD70-R, DIGI-HD60C-R, DIGI-HDE-R, FLX-BI4
Included Accessories	US Power Supply, Installation Guide
Mounting Solution	DIGI-PMK1

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