

DIGI-HD-IR3-S Technical Specification

HDMI and Bi-directional IR over Twisted Pair Transmitter

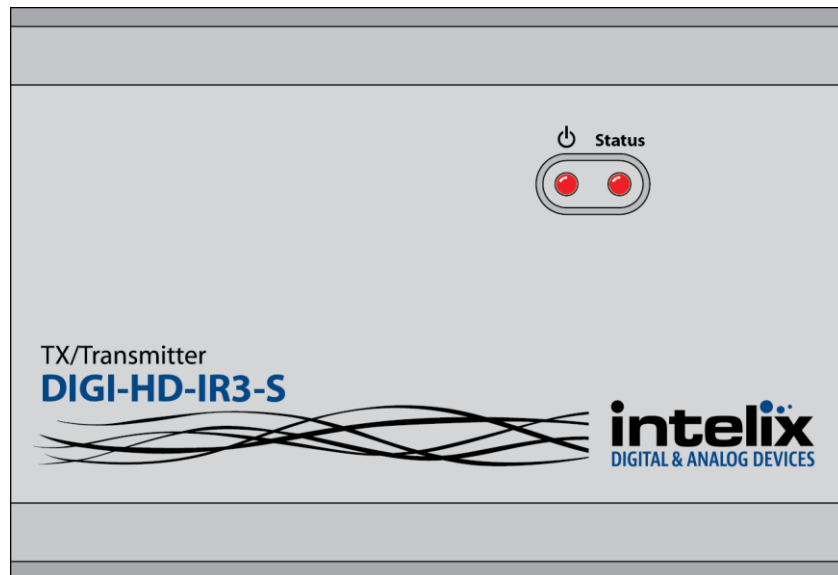
Rev. 130208

Based on the Intelix's award-winning DIGI-HD-IR2, the DIGI-HD-IR3 -S is a professional-grade extender which transmits HDMI and bi-directional, wideband IR up to 300 feet over two twisted pair cables.

Ideal for residential AV, commercial AV, and digital signage applications, the DIGI-HD-IR3-S transmits 1080p video up to 150 feet, 720p and 1080i video up to 300 feet, and 480i and 480p video up to 300 feet. Built-in buffering and amplification allow multiple units to be linked for greater distances, and ESD protection safeguards connected equipment from power strikes and surges.

The DIGI-HD-IR3-S employs Intelix HDshāk processing, which delivers the highest level of EDID and DDC negotiation, ensuring proper source and destination HDCP handshaking even over extended distances of twisted pair cabling. Features include dynamic EDID transfer and bandwidth limiting circuitry.

The DIGI-HD-IR3-S includes a twisted pair transmitter, IR receiver (IR eye), IR emitter, and a power supply.



Technical Specifications	
I/O Connections	
Twisted Pair Output	Two (2) 8P8C ports (Shielded RJ45)
HDMI Input	One (1) HDMI Type A Receptacle Connector
IR Input	One (1) 3.5mm TRS
IR Output	One (1) 3.5mm TS
Firmware Update Port	One (1) USB Mini connector *Factory use only!*
Power Input	One (1) 5.5mm outer / 2.1mm inner diameter coaxial power connector
DIP Switch	Two switch DIP
Supported Audio and Video	
Supported Video Resolutions	HDTV: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p VESA Resolutions: Up to 1920x1200
Supported Audio	Dolby TrueHD 7.1, Dolby TrueHD 5.1, Dolby Digital 5.1, DTS-HD Master Audio 7.1, DTS-HD Master Audio 5.1, DTS 5.1, PCM 2.0, PCM 5.1
3D Support	Side by side half frame Top and bottom half frame
Output Video	HDMI with HDCP
Compliance	HDMI and HDCP
Maximum Distance per Linked Unit (Cat 5e)	1080p 3D: 66 feet 1080p: 100 feet 1080i/720p: 200 feet 480i/480p/576i/576p: 200 feet
Maximum Distance per Linked Unit (Shielded Cat 6a)	1080p 3D: 100 feet 1080p: 150 feet 1080i/720p: 300 feet 480i/480p/576i/576p: 300 feet
DIP Switch Modes	1080p/2.0, 1080p/5.1, EDID from display via twisted pair
Extender Signal Characteristics	
Video Amplifier Bandwidth	1.65 Gbps
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
Chassis and Environmental	
Enclosure	Painted steel
Dimensions	111mm x 76mm x 24mm (4.37" x 3" x 0.95")
Operating Temperature	86°F
Shipping Weight	0.57 kg (1.25 lbs.)
Power, ESD, and Regulatory	
Maximum Power Consumption	5 watts
Power	5vDC / 1A
Regulatory	CE, RoHS
ESD Protection	15kV
Other	
Compatible Receivers	DIGI-HD-IR3-WP-R, DIGI-HD-IR3-R, *DIGI-HD-XR, *DIGI-HD-IR2-R *when paired with 2-series, bi-directional IR is not supported; only display-to-source
Mounting Kit (optional)	DIGI-PMK1
Diagnostic Indicators	Status and power LEDs
Warranty	2 years
What's in the Box	DIGI-HD-IR3-S, IR receiver, IR emitter, US power supply, Installation Guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.