intelix

INT-HDX100 Installation Guide

INT-HDX100-TX
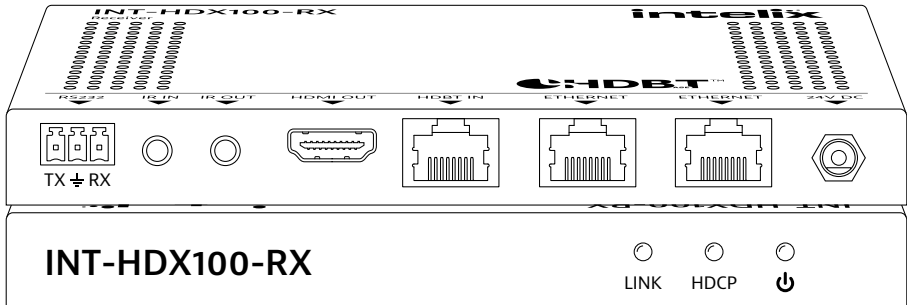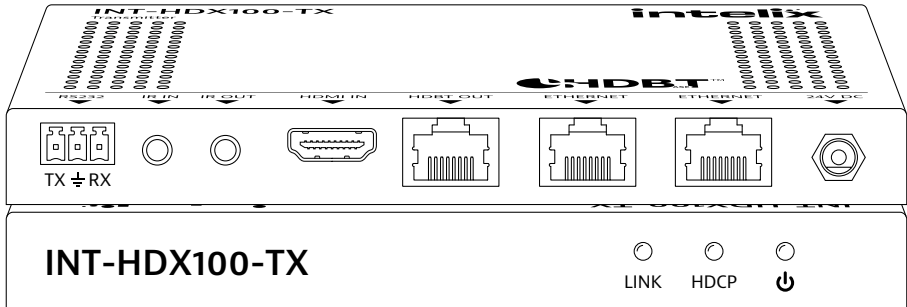

INT-HDX100-RX

The Intelix INT-HDX100 extends HDMI over a single solid core shielded Category 5e or greater cable using the Valens VS100 HDBaseT chipset. The INT-HDX100 supports 1080p, full 3D or 4k x 2k video signals up to 100 meters (328 feet) including multichannel audio and HDCP 1.4/2.2. Built-in surge protection and diagnostic LEDs ensure hassle-free and robust installations. Key features of the new extender series include power over HDBaseT (PoH), bidirectional IR, bidirectional RS232, and Ethernet pass-through with a 2-port network switch.

Flexible power design allows the INT-HDX100 series extenders to be powered at either the TX or RX end, and only one power supply is required. The power supply is included with the extender. The bidirectional wideband IR, bidirectional RS232, and Ethernet pass-through capabilities make the INT-HDX100 compatible with most control systems. The IR emitter (DIGIB-EMT) and IR receiver (DIGIB-EYE) are sold separately. The two-port network switch on the INT-HDX100 allows a second device to share the 100BaseT Ethernet pass-through connection without adding additional hardware to the installation.

The INT-HDX100 series extenders are compatible with all Intelix HDBaseT product offerings and any product that meets the HDBaseT specifications.

Installation Instructions

The following instructions describe the installation process for a point-to-point installation. The procedure is similar for compatible HDBaseT components.

1. Verify all components included with the INT-HDX100 extender are present before installation.

2. If the INT-HDX100 extender will be permanently mounted to a surface, attach the included mounting brackets with the supplied screws.

3. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.

4. Connect shielded, solid core Category 5e or greater twisted pair cable with RJ45 connectors between the INT-HDX100-TX and the INT-HDX100-RX. TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.

5. Connect an HDMI cable and any desired control accessories between the source and the transmitter.

6. Connect an HDMI cable and any desired control accessories between the display and the receiver.

7. Connect a Category 5e patch cable between one of the *ETHERNET* ports and any device that requires an Ethernet connection from the transmitter.

8. Connect the power supply to either the INT-HDX100-TX or the INT-HDX100-RX and lock the power supply to the power connector by twisting the locking collar clockwise.

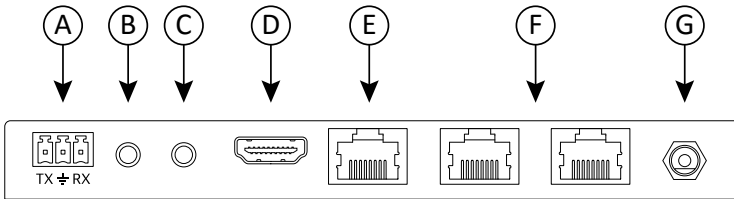9. Power on attached audio/video devices.

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.

Extender Front

INT-HDX100-RX

LINK   HDCP   ⏻

1. HDBaseT Link Indicator
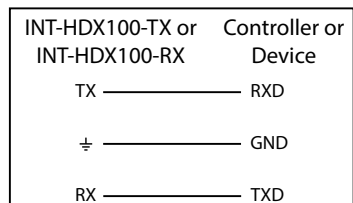2. HDCP Activity Indicator
3. Power Indicator

Extender Rear

TX ÷ RX

A. RS232 Port
B. IR Input
C. IR Output
D. HDMI port: Input on TX; Output on RX
E. HDBaseT port: Output on TX; Input on RX
F. Ethernet Ports
G. 24V DC Power Input

Included Accessories

· Extender
· Locking Power Supply with Power Adapters
· Two Mounting Rails with Screws
· 3-pole Removable Terminal Block
· Installation Guide

RS232 Wiring

Connect the controller or device RXD signal to TX on the INT-HDX100 extender. Connect the controller or device TXD signal to RX on the INT-HDX100 extender.

INT-HDX100-TX or INT-HDX100-RX	Controller or Device
TX ————————	RXD
÷ ————————	GND
RX ————————	TXD

Supported Audio, Video, and Control

Video Resolutions	SMPTE: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, UHD/30 VESA: Resolutions up to 1920x1200 Color Depth: 24, 30, 36, 48bit
Maximum Video Compatibility at 100 m	Deep Color 48/36/30/24 Bit at 1080p, 3D, UHD/30
Video Compliance	HDMI 1.4 and HDCP 1.4/2.2
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
CEC (Consumer Electronics Control)	Yes (Pass-through Only)
Supported Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Supported IR Carrier Frequencies	33 to 55 kHz
Ethernet	100BaseT

HDBaseT Signal Characteristics

Maximum Distance	100 m (328 ft)
Cable Requirements	Continuous shielded solid core Cat 5e or greater with TIA/EIA-568B crimp pattern (no couplers in-line)
HDBaseT Chipset	VS100

Chassis and Environmental

Dimensions (H x W x D)	16.2 mm x 152 mm x 104 mm (0.64 in x 5.98 in x 4.09 in)
Operating Temperature	0° to +40° C (+32° to +104° F)

Power, ESD and Regulatory

Power Input	24V DC 1.25A or 48V DC PoH (Power over HDBaseT)
Power Output	48V DC PoH (Power over HDBaseT)
Power over Ethernet (PoE) Compatibility	802.3af Alternative A
ESD Protection	15kV air, 8kV contact
Regulatory	FCC, CE, RoHS

Other

Warranty	2 years
Diagnostic Indicators	HDCP, Link, and Power
Included Accessories	Installation Guide, power pupply, 3-pin removable screw terminal, mounting brackets with screws

Intelix is a brand of Liberty AV Solutions.

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