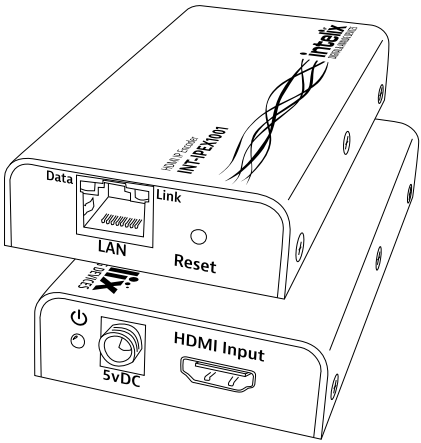
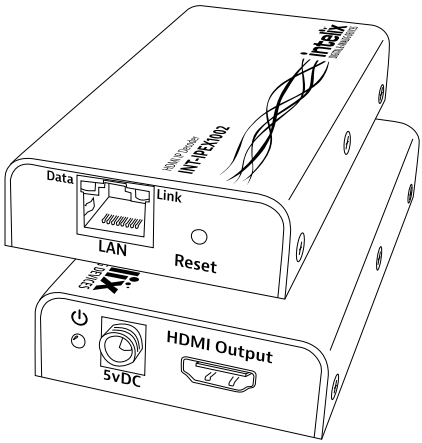
intelix
DIGITAL & ANALOG DEVICES

INT-IPEX1000 Installation Guide





The Intelix INT-IPEX1000 series extenders are designed to distribute an HDMI formatted video signal from a single source to multiple displays, such as a digital signage environment. These extenders use parts of the link layer and network layer of the OSI model to distribute the video signal.

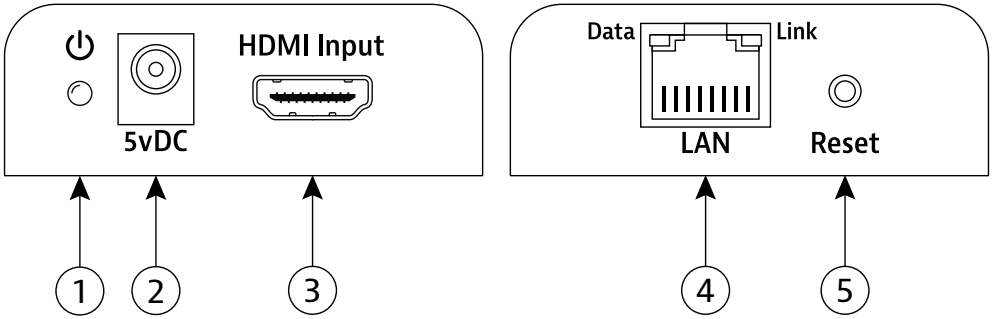
The INT-IPEX1001 is an HDMI video to M-JPEG encoder which broadcasts the video via multicast packets through the LAN output to the entire network. The INT-IPEX1001 has a built-in EDID of 1080p/30 with 2 channel audio. The INT-IPEX1002 receives the multicast packet stream on the LAN input and decodes the M-JPEG video back to an HDMI formatted video stream.

While the INT-IPEX1000 series extenders use Ethernet switches to distribute a video signal to multiple displays, these devices must be installed on their own dedicated network infrastructure.

Important notice:

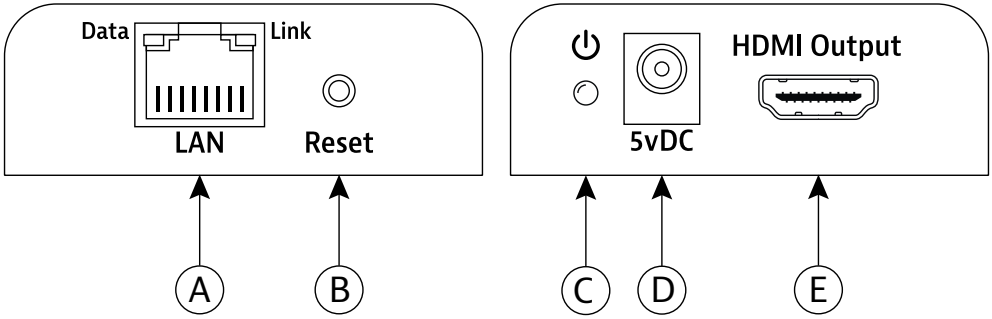
- Do not attempt to disassemble or alter the housing. There are no user-serviceable parts inside the unit. Doing so will void your warranty.
- To minimize the possibility of equipment damage from electrostatic discharge (ESD), all source and destination equipment must be powered off during installation.
- Do not connect the device 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.

INT-IPEX1001 Connections



1. Power LED
2. Power Input
3. HDMI Input
4. LAN Port with Data and Link LEDs
5. Reset Button

INT-IPEX1002 Connections



1. LAN Port with Data and Link LEDs
2. Reset Button
3. Power LED
4. Power Input
5. HDMI Output

LED States

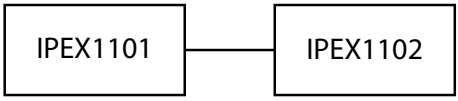
When a connection is detected, the green (left) and amber (right) LEDs on the LAN port will light. The green Link LED will be lit solid. The amber Data LED will flash once a second if no HDMI source signal is present. The amber Data LED will flash quickly when an active HDMI signal is connected.

Instructions

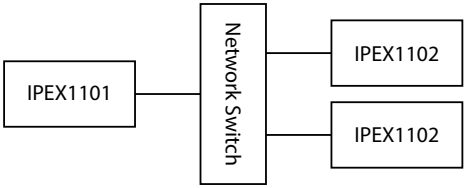
While the INT-IPEX1000 series extenders use Ethernet switches to distribute a video signal to multiple displays, these devices must be installed on their own dedicated network infrastructure.

1. Verify all components included with the extenders are present before installation.
2. If the extender will be sitting on a shelf, attach the supplied rubber feet to the bottom of the product.
3. If the extender will be secured to a surface, attach the included mounting brackets with the supplied screws to the center screw point on the side of the extender. Secure the extender to the surface.
4. For a point to point installation, connect Category 5e or greater twisted pair cable with RJ45 connectors between the extenders. TIA/EIA-568B straight-through wiring connections are highly recommended to limit potential interference.
5. For a video distribution installation, connect Category 5e or greater twisted pair cable with RJ45 connectors between the extenders and Ethernet switch. TIA/EIA-568B straight-through wiring connections are highly recommended to limit potential interference.
6. Connect an HDMI cable between the display and the decoder (INT-IPEX1002).
7. Connect an HDMI cable between the source and the encoder (INT-IPEX1001).
8. If the extenders are connected to a network switch with PoE, such as the INT-IPSW1100 series,power supplies are not required for use. Plug the optional power supplies (PS-5D-10) into the power input port of the extenders and lock the power supply to the power connector by twisting the locking collar clockwise. The red Power LED will light when receiving power.
9. Power on attached audio/video devices.

Point-to-Point



Video Distribution



Technical Specifications

Input/Output Connections	
LAN port	One (1) 8P8C-F
HDMI Input (INT-IPEX1001)	One (1) HDMI Type A Receptacle
HDMI Output (INT-IPEX1002)	One (1) HDMI Type A Receptacle
5vDC Input	One (1) Threaded Locking Barrel (5.5 mm OD; 2.6 mm ID)
Supported Audio and Video	
Maximum Video Compatibility	24 Bit at 1080p
Video Compliance	HDMI 1.3 and HDCP 1.3
Embedded Audio	PCM 2-channel, 44.1 and 48 KHz
Ethernet Signal Characteristics	
Maximum Distance	100m
Cable Requirements	Solid core Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Ethernet Standards	IEEE 802.3/802.3u/802.3x/802.1p/802.1q
PoE Standards	IEEE 802.3af/at (Type 1)
Transcoder Compression	Motion JPEG
Transmission Method	Multicast streaming on Link and Network layers of OSI model
Chassis and Environmental	
Enclosure Material	Galvanized Steel
Enclosure Dimensions (H x W x D)	21.5 mm x 120 mm x 60 mm (0.85 in x 4.72 in x 2.36 in)
Shipping Weight	0.18 kg (0.40 lbs)
Operating Temperature	0° to +55° C (+32° to +131° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-40° to +85° C (-40° to +185° F)
Storage Humidity	10% to 85%, Non-condensing
Power and Regulatory	
Power Consumption (INT-IPEX1001)	4.2 watts
Power Consumption (INT-IPEX1002)	3.5 watts
ESD Protection	±15 kV
Product Regulatory	CE, FCC, RoHS
Other	
Warranty	2 years
Diagnostic Indicators	Power, Link, Data
Power Supply (sold separately)	PS-5D-10
Included Accessories	Installation Guide, Rubber feet (4 ea), Mounting brackets (2 ea) with screws

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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