intelix
DIGITAL & ANALOG DEVICES

DIGI-HDUSB Installation Guide

The Intelix DIGI-HDUSB extends HDMI and computer USB 2.0 signals up to 100m (330 ft) over twisted pair cabling. The DIGI-HDUSB 3-port USB/Video extender system supports full uncompressed HD video and USB 2.0 (up to 30Mbps) suitable for video applications in conjunction with keyboards, mice, and USB 1.1 web cameras. The DIGI-HDUSB supports HDMI video features such as 1080p, 4K, Deep Color and CEC/HDCP pass-through. The DIGI-HDUSB supports both USB 1.1 and 2.0 devices.
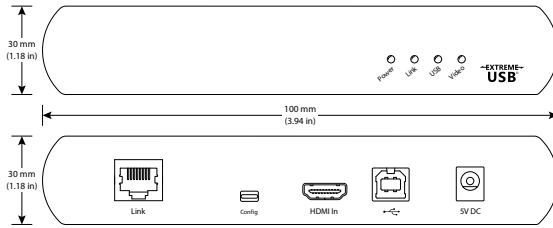
Included Accessories

· (2) Power supplies
· USB Type A to USB Type B cable
· HDMI Cable
· Installation Guide

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.

Host Side Connections

1. Status LEDs
   - Power: Solid green when power is applied.
   - Link: Solid green when link is present between extenders.
   - USB: Solid green when connected to host PC; flashes green when in a suspended state.
   - Video: Solid green when HDCP content is being transmitted; flashing green when non-HDCP content is being transmitted.
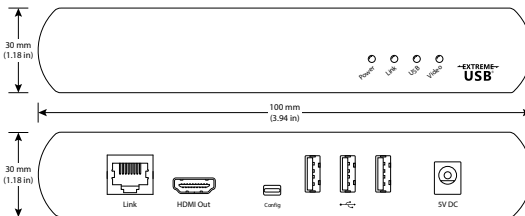2. 5V DC Power Input
3. USB Type B Port to PC
4. Link Port to Extender
5. HDMI in from source
6. Config for firmware update. A separate document will provide usage instructions once a new firmware update is available.

Client Side Connections

1. Status LEDs
   - Power: Solid green when power is applied.
   - Link: Solid green when link is present between extenders.
   - USB: Solid green when connection is established between local extender and host PC; flashes green when in a suspended state.
   - Video: Solid green when HDCP content is being transmitted; flashing green when non-HDCP content is being transmitted.
2. Link Port to Extender
3. HDMI out to remote monitor
4. (3) USB Type A Port to USB device(s)
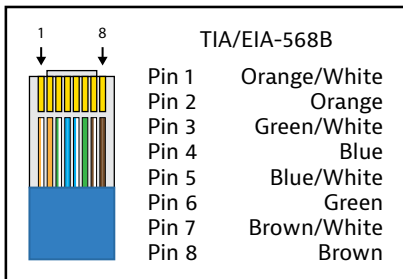5. 5V DC Power Input
6. Config for firmware update. A separate document will provide usage instructions once a new firmware update is available.

Instructions

1. Verify all components included with the extender set are present before installation.
2. Connect USB cable between the computer and the Host device.
3. Connect HDMI cable into the extender and supported HDMI device.
4. Connect the remote device(s) to the client extender.
5. Connect Category 5e or greater twisted pair cable with RJ45 connectors between the Host and Client extenders. TIA/EIA-568B straight-through wiring connections must be used with all extenders.
6. Connect the included power supplies to the Host and Client extenders.

Troubleshooting Tips

Symptom	Possible Solutions
· Link LEDs on Local Extender · Remote extenders are off	· Verify that both ends of the twisted pair cables use T568B crimp pattern. · Test with a short twisted pair patch cord between local and remote extenders. · Verify the power supplies are connected to both local and remote extender.
· Link LED on Local extender is on · USB LED on local extender is off	· Verify USB cables at local and remote USB ports are operational. · Verify USB device works directly attached to PC. · Verify the USB device driver is installed and working.
· All LEDs on both extenders are on · USB device is not operating correctly	· Verify the USB device is operational. · Verify the operating system has all the latest updates installed. · Test a second USB device with the extenders.
· Video LED is off	· Verify HDMI cables are less than or equal to 5 meters in length. · Test with a short twisted pair patch cord between local and remote extenders. · Test with a second HDMI source.

TIA/EIA-568B

Pin 1	Orange/White
Pin 2	Orange
Pin 3	Green/White
Pin 4	Blue
Pin 5	Blue/White
Pin 6	Green
Pin 7	Brown/White
Pin 8	Brown

Twisted Pair Wiring
Use TIA/EIA-568B wiring for Category 6 connections between transmit and receive units.

Technical Specifications

Host Input/Output Connections	
USB Input	One (1) USB Type B Receptacle
Video Input	One (1) HDMI In
Link Output	One (1) 8P8C Connector (RJ45 style)
5V DC Power	One (1) Barrel (5.5 mm OD; 1.7 mm ID)
Client Input/Output Connections	
USB Outputs	Three (1) USB Type A Receptacles
Video Output	One (1) HDMI Out
Link Input	One (1) 8P8C Connector (RJ45 style)
5V DC Power	One (1) Barrel (5.5 mm OD; 1.7mm ID)
USB Performance	
Maximum Distance	100 m (328 ft) over solid core Category 5e or greater cable
USB Device Support	High-speed devices (USB 2.0) - up to 30 Mbps Full-speed devices (USB 2.0 & 1.1) - up to 12 Mbps Low-speed devices (USB 2.0 & 1.1) - up to 1.5 Mbps
USB Hub Support	Any single chain can include up to 4 USB hubs.
USB Host Support	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)
Video Performance	
Video Resolution & Depth	High Definition 1080p, 1920 x 1200, and 4K; Depth: 2D and 3D
Color	36-bit, Deep Color, and x.v. Color
Latency	Less than 1ms
Chassis and Environmental	
Enclosure Material	Black Anodized Aluminum
Enclosure Dimensions (H x W x D)	112 mm x 175 mm x 30 mm (4.4 in x 6.9 in x 1.18 in)
Shipping Weight	1.95kg (4.30 lbs)
Operating Temperature	0°C to +40°C (+32° to +104° F)
Operating Humidity	20% to 80%, Non-condensing
Storage Temperature	-20° to +70° C (-4° to +158° F)
Storage Humidity	10% to 90%, Non-condensing
Power and Regulatory	
Power Supply Input	100V-240VAC / 50-60 Hz / 0.6A
Power Supply Output	5VDC / 3.0A
Power Consumption	15 watts (max)
Power Available to USB device at REX	500mA each port
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS2
Other	
Warranty	2 years
Diagnostic Indicators (Host Side)	Power, Link, USB, Video
Diagnostic Indicators (Client Side)	Power, Link, USB, Video
Included Accessories	(2) Power Supplies, USB Cable, HDMI cable, 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.

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