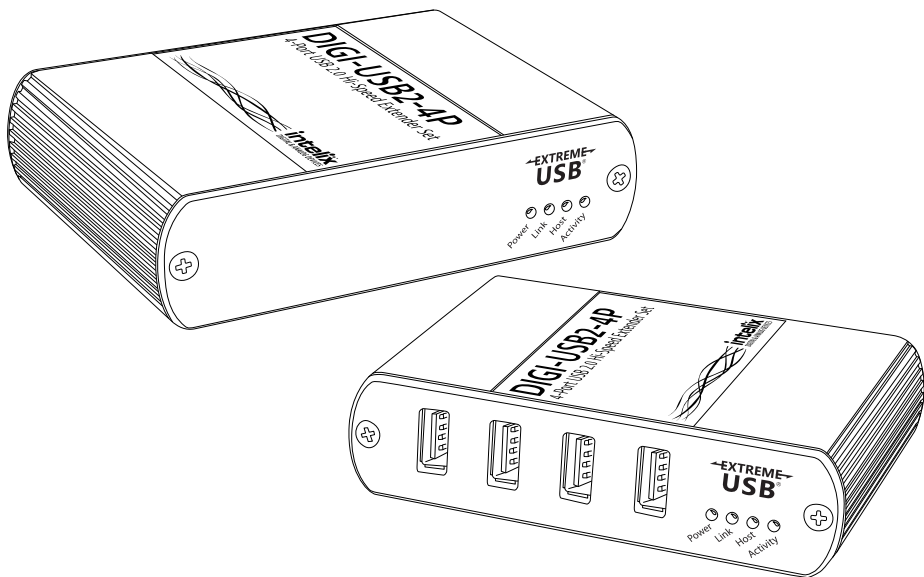


# intelix

DIGITAL & ANALOG DEVICES

## DIGI-USB2-4P Installation Guide



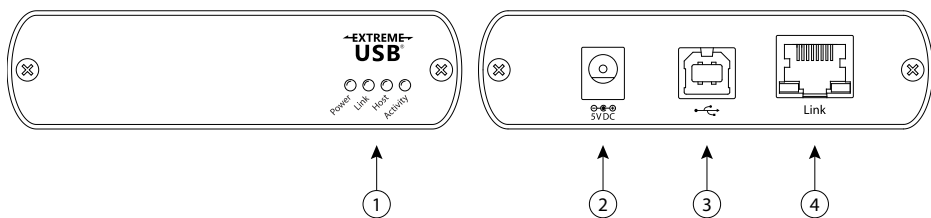
The Intelix DIGI-USB2-4P extends computer USB 1.1 and USB 2.0 signals up to 100m (330 ft) over twisted pair cabling to four remote devices.

The DIGI-USB2-4P utilizes inexpensive twisted pair cabling and has a throughput of up to 480Mbps. The DIGI-USB2-4P is perfect for keyboard and mouse extension, remote data ports, up to 4 USB hubs, security applications and interactive white board applications.

### **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

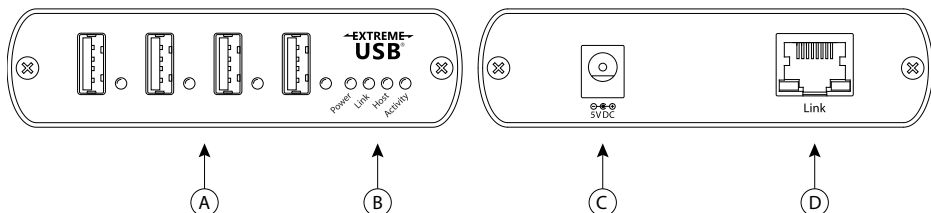
- Power: Solid blue when power is applied
- Link: Solid green when link is present between extenders
- Host: Solid green when connected to host PC; flashes green when in a suspended state
- Activity: Flashes amber when transmitting data; off when in extenders are in a suspended state

## 2. 5V DC Power Input — *Only needed if host PC cannot provide 500mA of current to USB port*

## 3. USB Type B Port to PC

## 4. Link Port to Extender

# Client Side Connections



## A. USB Type A Port to Device(s) with LED

- Solid green when device is present and operating normally
- Off when device is in suspend mode or extender is powered off
- Solid orange when an overcurrent condition (greater than 500 mA of current draw) is detected

## B. Status LEDs

- Power: Solid blue when power is applied
- Link: Solid green when link is present between extenders
- Host: Solid green when connected to host PC; flashes green when in a suspended state
- Activity: Flashes amber when transmitting data; off when in extenders are in a suspended state

## C. 5V DC Power Input

## D. Link Port to Extender

# Included Accessories

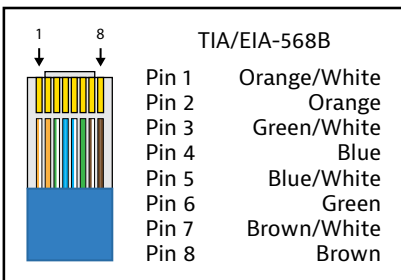
- Power supply
- USB Type A to USB Type B cable

## Instructions

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

## Troubleshooting Tips

Symptom	Possible Solutions
<ul style="list-style-type: none"><li>• USB is not functioning</li><li>• USB Port LED is off</li></ul>	<ul style="list-style-type: none"><li>• Verify that both ends of the twisted pair cables use T568B crimp pattern.</li><li>• Verify the power LEDs on both the send and receive units are brightly illuminated.</li><li>• Verify the power supply is connected to either the client extender.</li></ul>
<ul style="list-style-type: none"><li>• USB is not functioning</li><li>• USB Port LED is on</li></ul>	<ul style="list-style-type: none"><li>• Verify USB cables at local and remote USB ports are operational.</li><li>• Verify USB device works directly attached to PC.</li><li>• Verify the USB device driver is installed and working.</li></ul>
<ul style="list-style-type: none"><li>• USB is not functioning</li><li>• Overcurrent notification (orange LED on USB port)</li></ul>	<ul style="list-style-type: none"><li>• Verify that the maximum distance has not been exceeded.</li><li>• Power cycle the client extender. Allow time for the system to discharge; 30 seconds will be adequate.</li></ul>



### ***Twisted Pair Wiring***

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

# Technical Specifications

<b>Host Input/Output Connections</b>	
USB Input	One (1) USB Type B Receptacle
Link Output	One (1) 8P8C Connector (RJ45 style)
5V DC Power	One (1) Barrel (5.5 mm OD; 1.7 mm ID)
<b>Client Input/Output Connections</b>	
USB Outputs (500 mA max current)	Four (1) USB Type A Receptacles
Link Input	One (1) 8P8C Connector (RJ45 style)
5V DC Power	One (1) Barrel (5.5 mm OD; 1.7 mm ID)
<b>USB Performance</b>	
Maximum Distance	100 m (328 ft) over Category 5e or greater cable
USB Device Support	High-speed devices (USB 2.0) - up to 480 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 plus one DIGI-USB2-4P.
USB Host Support	xHCI (USB 3.0) at USB 2.0 speed, EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)
Maximum USB Devices Supported	Up to 15 USB devices or 4 USB hubs with 11 USB devices.
<b>Chassis and Environmental</b>	
Enclosure Material	Anodized Aluminum
Enclosure Dimensions (H x W x D)	26 mm x 100 mm x 76 mm (1.02 in x 3.94 in x 2.99 in)
Shipping Weight	0.9 kg (2.0 lbs)
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
<b>Power and Regulatory</b>	
Power Supply Input	100V-240VAC / 50-60 Hz / 0.6A
Power Supply Output	5VDC / 3.0A
Power Consumption	15 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, IC, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS
<b>Other</b>	
Warranty	2 years
Diagnostic Indicators (Host Side)	Power, Host, Link, Activity
Diagnostic Indicators (Client Side)	Power, Host, Link, Activity, USB Port Status
Included Accessories	Wall Mount Power Supply, USB Type A to USB Type B 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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