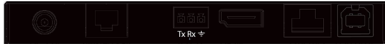




DIGITALINX

DL-DP100 Installation Guide



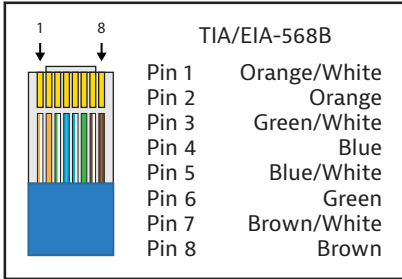
Included Accessories

- Installation Guide
- (1) Power Supply
- (4) Mounting Ears
- (2) 3-pole Terminal Block

The DigitaLinx DL-DP100 HDBaseT extender set transmits Display Port (1080p & 4Kx2K) including HDCP 1.4, Ethernet, USB-HID, HD Audio, and RS232 pass-through up to 100 meters away using a single Category 6 twisted pair cable.

Built-in diagnostic LEDs ensure hassle-free and robust installations. The DL-DP100 supports USB-HID pass-through providing a solution where users have flexibility to control or operate physically inaccessible PC, Server or Workstation remotely.

The 48V PoH integrated design allows the units to be powered at the TX end, and only one power supply is required. The 12 volt power supply is secured with a screw-on connector to prevent the power from being accidentally disconnected.

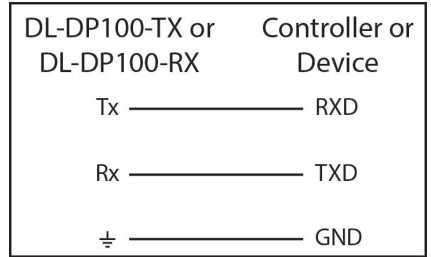


Twisted Pair Wiring

Use TIA/EIA-568B wiring for Category 6 connections between send and receive units and when using the Ethernet connections.

RS232 Wiring

Connect the controller or device RXD signal to Tx on the DL-DP100 extender. Connect the controller or device TXD signal to Rx on the DL-DP100 extender.



Diagnostic LEDs:

The DL-DP100 provides four LEDs to indicate the current operating status and to assist troubleshooting an installation.

Power: Solid Red, the DL-DP100 extender is receiving power from the power supply or from the remote extender via Category 6 cabling.

Status: Flashes Blue once per second, the HDBaseT processor is running.

HDCP: Solid Blue, HDCP signal is present. Flashes quickly, no HDCP signal is present.

Link: Solid Green, the two DL-DP100 extenders are communicating via Category 6 cabling.

Instructions

1. Verify all components included with the extender set are present before installation.
2. If the extenders are going to be permanently mounted to a surface, attach the included mounting brackets.
3. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
4. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the transmitter (DL-DP100-TX) and the receiver (DL-DP100-RX). TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.
5. Connect a Display Port cable and any desired control accessories between the display and the receiver (DL-DP100-RX).
6. Connect a Display Port cable and any desired control accessories between the source and the transmitter (DL-DP100-TX).
7. Connect the included power supply to the transmitter and lock the power supply to the power connector by twisting the locking collar clockwise.
8. 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.

Technical Specifications

Supported Audio and Video	
Maximum Video Compatibility	100m: 1080p/60 & 4k x 2k @30Hz (4:2:0)
Video Compliance	Display Port 1.2, HDCP 1.4
Audio format	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
S/PDIF Audio	Stereo, LPCM 5.1, Dolby/ DTS 5.1
RS232 Baud Rate	Up to 115200 baud
Control Method	RS232, Ethernet and USB
HDBaseT Signal Characteristics	
Transmission Distance	CAT 5e/6: 3840x2160: Max 70m; 1080p: Max 100m CAT6a/7: 3840x2160: Max 100m; 1080p: Max 100m
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps
Input Video Level	0.5~1.0 Vp-p
Maximum Pixel Clock	297MHz
Video Impedance	100 ohms
Chassis and Environmental	
Dimensions	220mm x 100mm x 25mm (8.66 in. x 3.93 in. x 0.98 in.)
Operating Temperature	0° to +45° C (+32° to +113° F)
Storage Temperature	-20° to +70° C (-4° to +158° F)
Operating Humidity (Environment)	10 % to 90%, Non-condensing
Power	
ESD Protection	Human-body Model: 8Kv (Air-gap discharge)/ 4Kv (Contact Discharge)
Power Supply Input Voltage	100-240V AC at 50-60 Hz
Power Supply Output Voltage	12V - 1.5A
Regulatory	CE, FCC
Other	
Standard Warranty	2 Years
Included Items	Installation Guide, Power Supply, (4) Mounting Brackets, (2) 3-pole Terminal Block



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11675 Ridgeline Dr.
 Colorado Springs, CO 80921
 Toll-Free: 800-530-8998
 Fax: 719-260-0075