
Quick Start Guide

FireNEX™-CAT6-DP

USB-C Extension over CAT Cable with 4K Display



Newnex
Connecting with Confidence™

Introduction



Thank you for purchasing FireNEX™-CAT6-DP, Newnex's latest all-in-one USB-C extension solution that delivers 5Gbps USB 3.2 data, 4K display video, audio, Gigabit Ethernet, and 60W PD charging—all over a single CAT cable up to 90 m (300 ft).

This manual contains details of the package contents, a step-by-step installation guide, product descriptions, as well as our return policy, warranty, and where to find technical support. Please read through this manual carefully before using the product. We highly recommend you to keep this handy.

Features



- All-in-One USB-C Extension with BYOD
- 4K DisplayPort Alt Mode with Auto Switching
- SuperSpeed USB 3.2 Data Support
- Powerful USB Power Delivery
- Expanded Connectivity for Peripherals & Displays
- Integrated Gigabit Ethernet
- RS-232 Serial Pass-Through
- Broad OS Compatibility

Package Contents

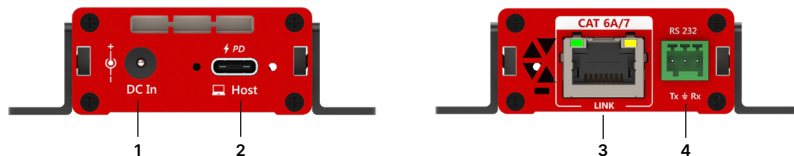


- FireNEX-CAT6-DP Local Unit × 1
- FireNEX-CAT6-DP Remote Unit × 1
- 36V DC Power Adapter (US)* × 1
- 2m USB 3.2 C to C Cable with Screw Locking × 2
- FireNEX-CAT6-DP User Guide × 1
- RS-232 Headers × 2

**Switch the AC power cord for international users*

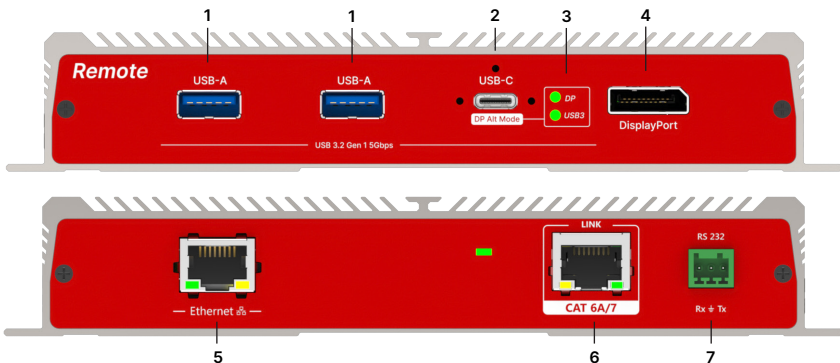
Port Descriptions

[Local Unit]



No.	Port Name	Description
1	DC Power Input	2.1 × 5.5 × 10.0 mm Barrel Jack, center positive; connect to 36V/100W AC/DC power adapter included, supply power for repeater operation and PD charge back
2	USB-C to Host	Connect to host (laptop, PC, phone) USB-C port, USB 3.0 and above, USB PD charge back up to 60W
3	CAT 6a/7 Link	Main extension link; supports up to 90m (300 ft) over CAT 6a/7 cable
4	RS-232	Connect to 3-Pin Phoenix 1881338 header included, bi-directional RS-232 pass (passive DP-to-HDMI compatible)

[Remote Unit]

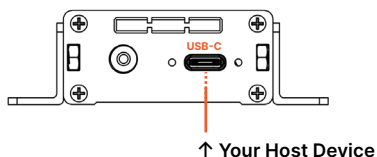


No.	Port Name	Description
1	USB-A Ports	Connect to USB 3.2/2.0 devices; supports up to 5Gbps
2	USB-C	Connect to USB-C peripherals; supports 5Gbps USB and DisplayPort video output with audio pass through
3	USB-C LED	DP = solid green when display signal is transmitted USB3 = solid green when USB 5Gbps signal is transmitted; if only USB 2.0/1.1 signal is detected, this LED won't light up
4	DisplayPort	Output video and audio; supports up to 4K resolution; DP++ enabled (passive DP-to-HDMI compatible)
5	Ethernet	Provides 10/100/1000 Mbps Ethernet to host
6	CAT 6a/7 Link	Main extension link; supports up to 90m (300 ft) over CAT 6a/7 cable
7	RS-232	Connect to 3-Pin Phoenix 1881338 header included, bi-directional RS-232 pass through for serial communication



1 Connect the Host Device

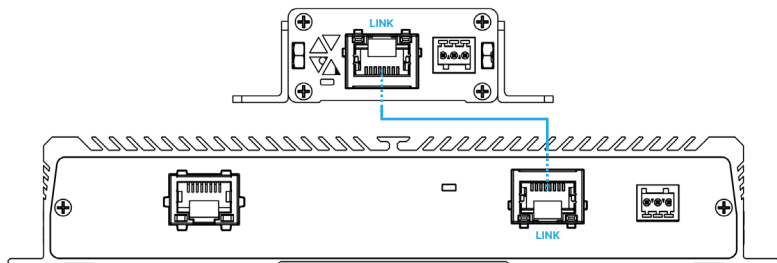
Connect the USB-C port on the Local Unit to your computer, laptop, or Android phone.



2 Connect the CAT Cable

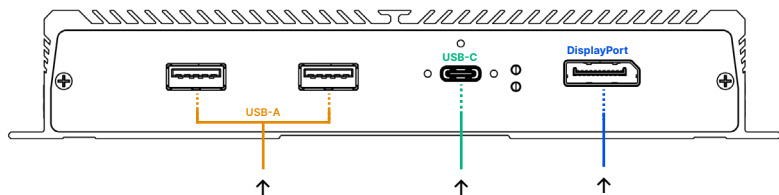
- Plug one end of your CAT 6a/7 cable into the Local Unit's Link port.
- Plug the other end of the cable into the Remote Unit's Link port.

▲ Use high-quality, shielded S/FTP CAT 6a/7 cable for optimal performance.



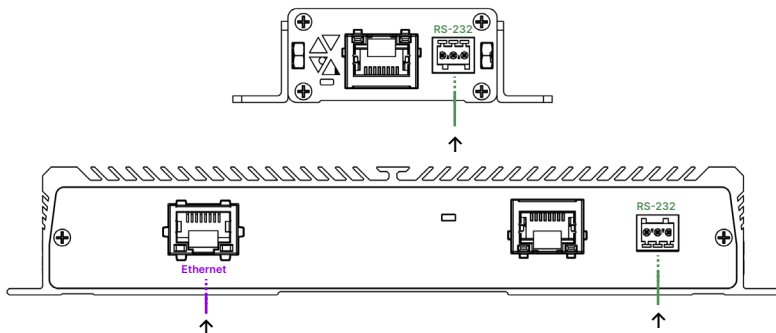
3 Connect the Display and USB Peripherals

- Connect a USB-C display or multi-functional device to the downstream USB-C port on the Remote Unit
- Connect an additional display to the DisplayPort output on the Remote Unit.
 - Supports up to 4K@60 resolution and audio pass-through
- Connect the other USB peripherals to the USB-A ports on the Remote Unit.



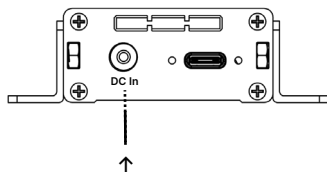
4 Connect Ethernet and RS-232 (Optional)

- Plug in an Ethernet cable to the RJ45 LAN port on the Remote Unit if network access is needed.
- For serial communication, connect RS-232 devices using the provided terminal block on the Local and Remote Units.



5 Power the system

- Connect the included 36V AC/DC power adapter to the DC input on the Local Unit.
- The Remote Unit will be powered over the CAT cable.



6 Install DisplayLink Driver (if needed)

- On Windows, the driver may auto-install. If not, download from: <https://www.displaylink.com/downloads>
- Install the driver for macOS, Ubuntu, or Chrome OS with the same link above
- Download DisplayLink app from your Android app store

Technical Support



Please visit the product page for additional information:

www.newnex.com/usb-c-extender-over-cat-dp.php

For technical support, visit: www.newnex.com/tech-support

Return & Warranty



FireNEX™-CAT6-DP comes with a **one-year limited manufacturer warranty** from the initial invoice date.

For more information about the return and RMA policy, visit

www.newnex.com/return-policy.

www.newnex.com

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