# Panel Mount USB-C Extension Cable

## Active Repeater | USB 3.2 Gen 2 | DP Alt Mode | PD Pass

*FireNEX<sup>TM</sup>-UDC*

Data Sheet



## Features

- Active boost USB 3.2 Gen 2 signal up to 10Gbps data rate

- Backward compatible with USB 3.0/2.0

- Support 4K@60Hz display over DP Alt Mode

- Bidirectional USB PD 3.1 pass through up to 240W at 48V/5A

- USB Bus Powered, no additional power input required

- D-series type panel mount Ready

- Metal enclosure body for maximum durability and EMI protection

- Plug and Play for Windows, Mac and Linux OS

## Ordering Information

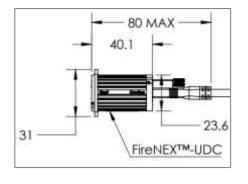| PN | DP Alt Mode | Configuration |
|---|---|---|
| FIRENEX-UDC-2M | 2-Lane DisplayPort + USB 3.2 | C/M to C/F, 2m |
| FIRENEX-UDC-4M | 2-Lane DisplayPort + USB 3.2 | C/M to C/F, 4m |
| FIRENEX-UDCD2M | 4-Lane DisplayPort + USB 2.0 | C/M to C/F, 2m |
| FIRENEX-UDCD4M | 4-Lane DisplayPort + USB 2.0 | C/M to C/F, 4m |

**Specification**

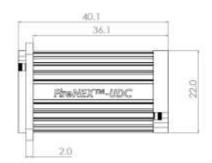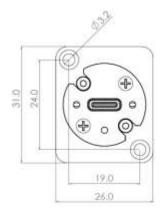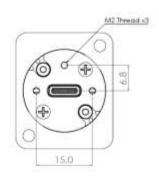| USB | Support USB 3.2 only with 2-Lane DP Mode<br>Both mode support USB 2.0/1.1 |
|---|---|
| USB 3.2 Gen 2 | 10 Gbps |
| (AKA USB 3.2 Gen 2x1, USB 3.1 Gen 2) | |
| USB 3.2 Gen 1 | 5 Gbps |
| (AKA USB 3.1 Gen 1, USB 3.0) | |
| USB 2.0/1.1 | Fully Compatible |
| USB Hub Tier Count | 0 |
| **DISPLAY** | |
| 2 Lane – DP v1.4 | Up to one 4K@60Hz, or two 2K@60Hz |
| (HBR3 Source & Device) | |
| 4 Lane - DP v1.4 | Up to one 8K@60Hz, or two 4K@60Hz |
| (HBR3 Source & devices) | |
| **Power Delivery** | |
| Max. Voltage | 48 V |
| Max. Current | 5 A |
| **MECHANICAL** | |
| Panel Mount Style | Neutrik D-Series |
| Upstream Port - Host | USB-C Female |
| Downstream Port - Device | USB-C Female |
| **ENVRIONMENTAL** | |
| Operating Temperature | 0 °C to 40 °C (32 °F to 104 °F) |
| Operating Humidity | 10% to 90% relative humidity, non-condensing |
| **COMPLIANCE** | |
| EMC | FCC, CE |
| Environmental | RoHS, REACH |
| **SUPPORT** | |
| Warranty | 1-year Manufacture Warranty |

**Product Images**

**Dimensions:**



**FAQ：**

1. **Q: What's the maximum cable length to use with FireNEX-UDC?**
   **A:** FireNEX-UDC is tested to work with passive USB-C cable up to 5 meters. Active USB-C cable is tested to work with FireNEX-UDC up to 15 meters.

2. **Q: Does FireNEX-UDC require power?**
   **A:** FireNEX-UDC is bus powered, require no additional power supply. FireNEX-UDC itself consumes less than 1.5W at full load.

3. **Q: Is FireNEX-UDC backward compatible with USB 2.0 or USB 3.0 peripherals?**
   **A:** Yes, FireNEX-UDC is backward compatible to USB 2.0/3.0 and ensures USB 2.0 and USB 3.0 signal integrity at extended length.

4. **Q: Do the USB-C ports of FireNEX-UDC support flippable plug-in?**
   **A:** The cable plug into FireNEX-UDC can be flipped.

5. **Q: Can I connect FireNEX-UDC to Active Optical Cable (AOC) or Active Extension Cable to reach longer distance?**
   **A:** Yes, FireNEX-UDC can be used with active USB-C cable.

6. **Q: Can I daisy chain FireNEX-UDC?**

> **A:** Yes user can daisy chain multiple FireNEX-UDC together to reach longer range.

**Accessories:**

| Description | Product Link |
|---|---|
| **Standard USB-C Cable** | https://newnex.com/usb-type-c-products.php |
| **Active USB-C Cables** | https://newnex.com/usb-active-cables.php |

**Application Diagram**