

FireNEX™-uHUB-10G



USB-C 10Gbps 7-Port Industrial Hub with Power Delivery

Data Sheet



Features

- 5-Port USB 3.1 Gen 2 hub support data rate up to 10Gbps
- USB 10Gbps, 5Gbps and USB 2.0/1.1 Hi-Speed supported
- 2 additional USB 2.0 downstream ports available
- 1 upstream USB-C port with USB Power Delivery 3.0 at up to 100W
- 1 downstream USB-C port with USB Power Delivery 3.0 up to 100W
- 4 downstream USB-A and USB-C ports with charging up to 3A at 5V
- 24V industrial DC power input with screw lock available
- Screw lock ports compliant with USB-C locking standard and USB3 Vision standard
- Plug and Play (no driver installation needed)
- IEC 6100-4-2 (Level 4) 20kV ESD protection on all USB ports
- Metal enclosure for industrial grade durability and EMI protection
- Surface mounting ready
- RoHS, REACH, CE and FCC Certified
- Works with all major OS: Windows, MAC OS X, and Linux

Description

Newnex's FireNEX™-uHUB-10G is an industrial USB 10Gbps hub designed for harsh environments and professional applications. This hub comes with a total of seven ports. Among the five downstream ports, three are USB-C, two are USB-A; they support data transfer rates up to USB 3.1 Gen 2 at 10Gbps, while also maintaining full support of lower USB data rates such as USB 3.0 at 5Gbps, USB 2.0 and 1.1. The hub also comes with two extra USB 2.0 ports for users to easily add in a few USB 2.0 peripherals, such as a keyboard and a mouse.

FireNEX™-uHUB-10G fully supports USB Power Delivery 3.0, uniquely providing USB PD in both host and device directions. With sufficient power supply, the hub can charge the host computer, such as a laptop, via the upstream USB-C port up to 100W (20V/5A) while simultaneously delivering power to one of the connected devices for up to 100W (20V/5A). Both USB PD ports are compliant with USB PD 3.0, automatically adjusting its power profile between 20V, 15V, 9V and 5V based on the devices' needs. All USB ports come with overcurrent and ESD protection, fully protected from faulty peripherals and electric shock.



Upstream Side



Downstream Side

Order Information

Included in the box

- 1x FireNEX™-uHUB-10G unit
- 1x USB C to C cable, 1m
- 1x User Manual
- 1x 24V DC Power Adapter

Specification

DATA RATE

USB-C	USB 3.1 Gen 2 support SuperSpeed 10Gbps, 5Gbps, USB 2.0/1.1
USB-A (Blue)	USB 3.1 Gen 2 support SuperSpeed 10Gbps, 5Gbps, USB 2.0/1.1
USB-A (Black)	USB 2.0/1.1

POWER DELIVERY

Upstream USB-C	USB PD 3.0 support up to 100W 20V up to 5A (3A max. with non-emarker cable) 15V, 9V, 5V up to 3A
Downstream USB-C (PD)	USB PD 3.0 support up to 100W 20V up to 5A (3A max. with non-emarker cable) 15V, 9V, 5V up to 3A
Downstream USB-C (Non-PD)	5V up to 3A
Downstream USB-A (10Gbps)	5V up to 2.4A USB BC v1.2 and Apple Charging standard support
Downstream USB-A (USB 2.0)	5V/0.5A

MECHANICAL

Dimensions	175 x 75 x 29 mm (6.89 x 2.95 x 1.14")
Unit Weight	334g (11.8 oz.)
Enclosure Material	Anodized Aluminum

POWER INPUT

DC Power Jack	2.5 x 5.5 x10mm Center Positive 24V up to 240W
Screw Terminal	24V DC up to 240W
Power Source Guide	240W for upstream and downstream 20V/5A PD 125W for one-side 20V/5A PD <i>User can calculate their power need based their own PD profile</i>

ENVIRONMENTAL

Operating Temperature	0°C to 85 °C (32°F to 185°F)
Storage Temperature	-10°C to 95 °C (14°F to 203°F)
Operating Humidity	20% to 80% relative humidity, non-condensing
Storage Humidity	10% to 90% relative humidity, non-condensing

COMPLIANCE

Screw Lock Port	USB Type-C Locking Connector Specification
EMC	FCC, CE
Environmental	RoHS, REACH

SUPPORT

Warranty	1-year Manufacture Warranty
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