

USB3C-104-HUB Rugged USB3 Gen2 5-Port A&C HUB

FEATURES

- 5-port USB 3.1 Gen 2 hub with data transfers up to 10Gbps
- USB C with PD 3.0 upstream connection to host computer
- One downstream USB Type C with PD 3.0 at up to 20V @ 5A
 Two USB Type C and two Type A downstream ports with Battery
- Two USB Type C and two Type A downstream ports with Battery Charging v1.2 and Apple Charging standards (up to 2.8A per port)
- IEC 61000-4 Level 4 ESD, EFT and Surge Protection on all USB data lines
- Rugged, industrial grade (-40°C to 85°C) operation
- Locking upstream, downstream, and power connectors prevent accidental disconnects
- SuperSpeed+ (10Gbps), SuperSpeed (5Gbps), Hi-Speed (480Mbps), Full-Speed (12Mbps), and Low-Speed (1.5Mbps) transfers supported on all ports
- Requires 24V power via DC power jack and a pair of screw terminals
- Compact, steel, low-profile enclosure
- RoHS compliant



- OEM (board only) option with PC/104 mounting holes and footprint for convenience in embedded applications
- Economy version equipped with standard, instead of locking connectors
- Tantalum capacitors for flight and space based applications
- Conformal coating

FUNCTIONAL DESCRIPTION

The USB3C-104-HUB is an industrial-grade 5-port USB hub optimized for harsh and rugged environments. This hub has latching / locking connectors on upstream and downstream ports as well as power, preventing accidental disconnects - making it perfect for applications that require vibration proofing. The rugged steel enclosure, positive retention connections, and -40°C to +85°C operation makes the USB3C-104-HUB stand out compared to commercially available hubs — and it's 100% Made in the USA.

Each connection has been designed for rugged use without loose or intermittent cables disrupting your application. The input power is secured via screw terminal or threaded DC Jack. Type C connections utilize USB-standard latching cables. The latching Type A ports' connectors provide high-retention (50N) downstream connections compatible with all industry-standard USB cables.

In addition to secure retention connectors signal integrity is further protected by IEC 61000-4-2 maximum-rated ESD protection diodes (15kV Contact & Air-gap).

The board is designed to be used in rugged industrial environments, but is small enough to fit nicely onto any desk or testing station. The module is PC/104 sized at 3.550" by 3.775", while the enclosure is approximately 4" x 4" x 1".

ACCESSORIES

Available accessories include the MP104-DIN for DIN rail mounting the USB3C-104-HUB and an external instrument grade power supply.

SOFTWARE

No software is provided or needed with this board. There is no need to install any drivers to use the USB3C-104-HUB. It will enumerate as a Generic Hub which uses the USB Hub Class Driver that is built in Windows OS or Linux, et al.





