

EX-1110HMVS

10-Port USB3.0 Metal Hub with Surge Protection and DIN RAIL Mounting Kit

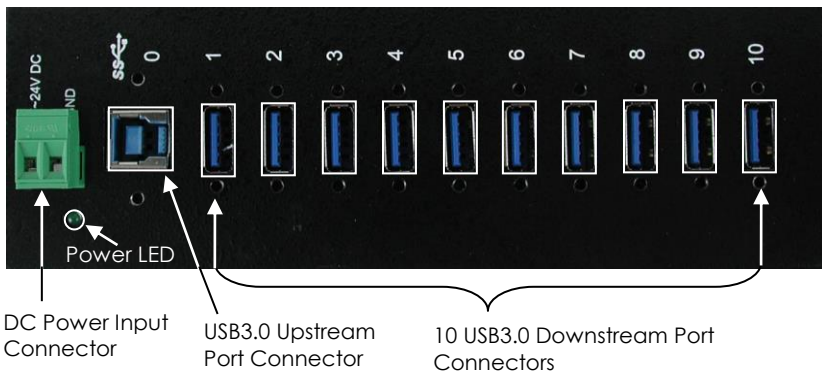
1. Introduction

Thank you for purchasing this Super-speed 10-port USB3.0 hub. It provides an ideal solution to expand 10 USB3.0 ports from one single USB3.0 host port. It provides a wide range self power source (+7~24VDC from 2-pin Terminal Blocks) to provide enough power on USB3.0 buses.

Features:

- ✓ Compliant with USB Specification Revision 3.0
- ✓ Rigid and Wall-mountable Metal Case
- ✓ Supports DIN RAIL Mounting Kit
- ✓ Provides 10 Downstream USB3.0 Facing Ports
- ✓ Supports 5Gbps (Super-speed), 480Mbps (High-speed), 12Mbps Full-speed) and 1.5Mbps (Low-speed) Speed
- ✓ Supports Surge and 15KV ESD Protection for Each Port
- ✓ Multi Transaction Translators (TT)
- ✓ Support BC v1.2: SDP, CDP and DCP modes
- ✓ Supports Fast-Charging Feature up to 2.4A
- ✓ Supports USB Screw-Lock Cable Mechanism

2. Connector Layout

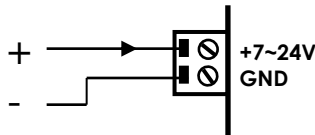


- **USB3.0 Upstream Port Connector:** Type-B connector from upstream USB3.0 port. It is connected from host or another USB3.0 hub. Supports both normal and screw-lock type USB cables.
- **USB3.0 Downstream Port Connectors:** There are 10 Type-A connectors for USB3.0, USB2.0 or USB1.1 devices. They support both normal and screw-lock type USB cables.
- **Self Power Input Connector:** This 2-pin (one pin for positive voltage and the other pin is GND) terminal block connector is used to connect strong power to self-power the hub, the voltage can be in the range from +7V to 24VDC.



WARNING!!

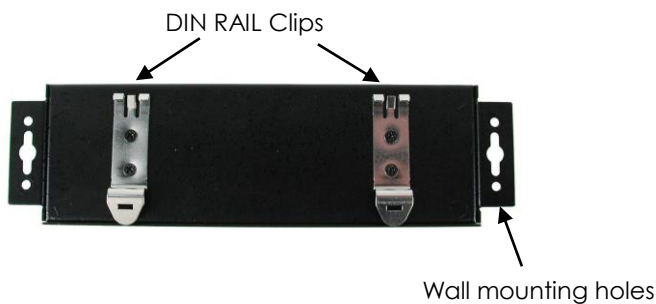
Please make sure the polarity of the input power should be correctly matched with the terminal block pins to function properly.



3. Hardware Installation

1. **Use static electricity discharge precautions.**
Remove possible static discharge potential from any objects that the hub may come in contact with before installation. This can be accomplished by touching a bare metal chassis rail after you have turned off the power.
2. **Apply DC power (range from +7V to 24V) to the 2-pin Terminal Block Connector.** The hub was self-powered by this connector. Since each downstream port can draw up to 2.4A in Apple Fast-Charging mode, the input power's watt should meet the minimum requirement of the total downstream ports.

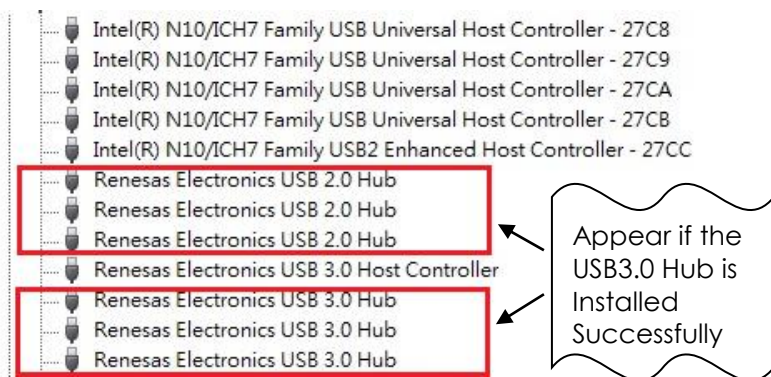
3. **Connecting USB Host cable:** The host cable could be either a standard A-to-B USB3.0 cable or an optional A-to-B USB3.0 screw-lock cable. Please connect the type-A end connector of the cable to your PC's host USB3.0 port, then insert the type-B end connector to this hub. Since the USB hub is plug-and-play, you don't have to turn off your host computer when installing the hub.
4. **Connect the USB devices to the downstream ports of this hub.**
5. **Mount your hub on the wall or DIN RAIL if required.**



4. Checking the USB3.0 Hub Installation

To check the USB3.0 hub installation in Windows device manager, please follow the following steps:

1. Click **Start → Control Panel → System → Device Manager** button
2. Double click **Universal Serial Bus Controller**
3. Double click **Generic USB Hub**, the message will show that this device is working properly.



5. Environmental Specifications

Operating temp.: 0 to 70°C (32 to 158°F)

Operating humidity: 5 to 95% RH

Dimensions (LxWxH): 7.78"(L)x2.18"(W)x1.22"(H)
(197.7x55.5x31.0 mm)