

EX-1112HMS

12-Port USB3.1 Gen 1 Metal Hub with 15KV ESD Surge Protection and DIN RAIL Mounting Kit

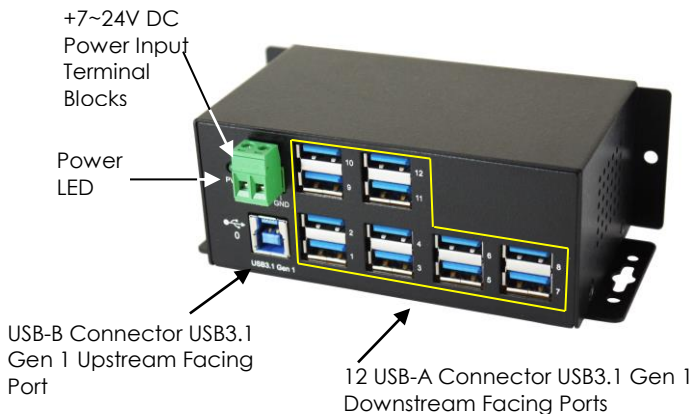
1. Introduction

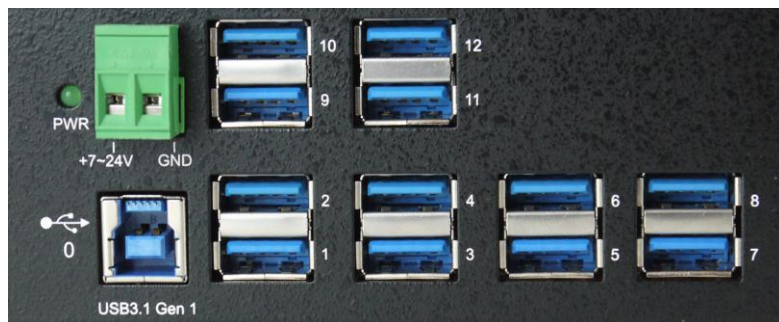
Thank you for purchasing this Super-speed 12-port USB3.1 Gen 1 (also commonly called USB3.0) hub. It provides an ideal solution to expand 12 USB3.1 Gen 1 ports from the USB3.1 Gen 1 host port. It provides a wide range self power source (+7~24VDC from its 2-pin Terminal Blocks) to supply enough power on USB3.1 Gen 1 buses.

Features:

- ✓ Compliant with USB3.1 Gen 1 Specifications
- ✓ Rigid and Wall-mountable Metal Case
- ✓ 1 USB-B Upstream and 12 USB-A Downstream USB3.1 Gen 1 Facing Ports
- ✓ Supports 5Gbps (Super-speed), 480Mbps (High-speed), 12Mbps Full-speed) and 1.5Mbps (Low-speed) Speed
- ✓ Supports 15KV ESD Surge Protection for Each Port
- ✓ Multi Transaction Translators (TT) per Hub
- ✓ Support USB Battery Charging: CDP and DCP modes
- ✓ Supports DIN RAIL Mounting Kit and Horizontal Mounting Bracket

2. Connector Layout



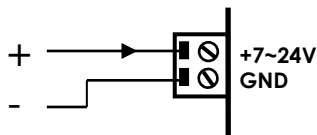


- **USB3.1 Gen 1 Upstream Port Connectors:** The Type-B upstream connector can be connected to a host or another USB3.1 Gen 1 hub.
- **USB3.1 Gen 1 Downstream Port Connectors:** There are 12 Type-A connectors for USB3.1 Gen 1, USB2.0 or USB1.1 devices.
- **Self Power Input Connector:** This 2-pin (one pin for positive voltage and the other pin is GND) terminal block connector is used to connect external power supply to self-power the hub, the voltage can be in the range from +7V to 24V DC.



WARNING!!

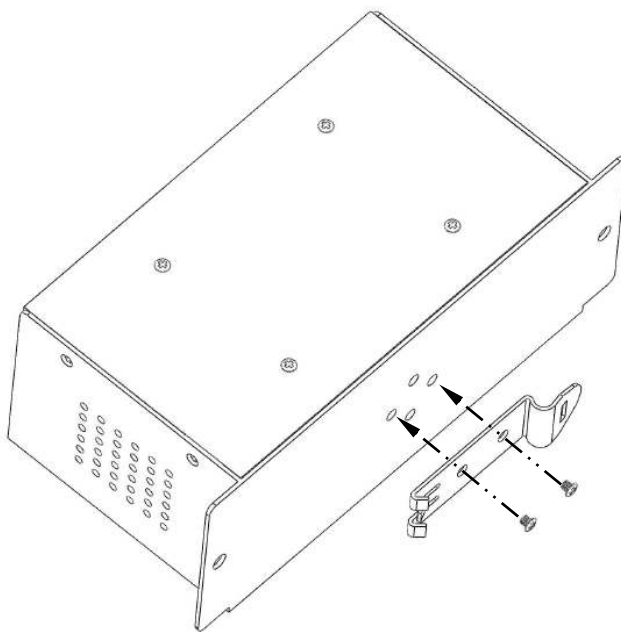
Please make sure the polarity of the input power should be correctly matched with the terminal block pins to function properly.



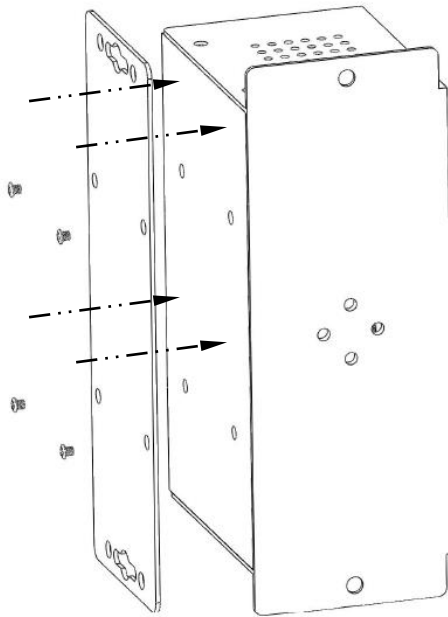
3. Hardware Installation

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 usually was self-powered by this connector.

3. **Connecting USB Host cables:** The host cable should be a standard A-to-B USB3.1 Gen 1 cable. Please connect the type-A end connector of the cable to your PC's host USB3.1 Gen 1 port, then insert the type-B end plug 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.**
 - Installing the DIN RAIL clip if the hub is to be assembled on a DIN RAIL:



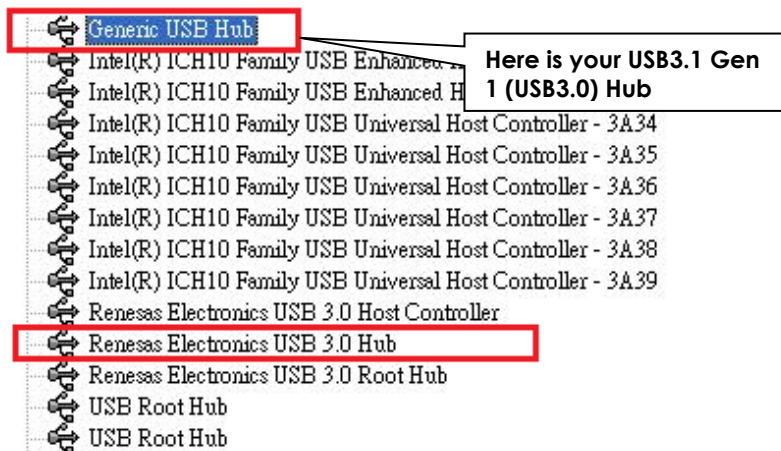
- Installing the Horizontal Bracket if the hub will be assembled on a horizontal surface.



4. Checking the USB3.1 Gen 1 Hub Installation

To check the USB3.1 Gen 1 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 55°C (32 to 131°F)
Operating humidity:	5 to 95% RH
Dimensions (LxWxH):	5.22"(L)x2.56"(W)x1.89"(H) (132.50x65.0x48.2mm)

6. Mechanical Drawings

Unit: mm

