

EX-1196HMS

7-Port USB3.1 Gen 1 Type-C Metal Hub (C-to-2C+5A) with DIN RAIL Mounting Kit

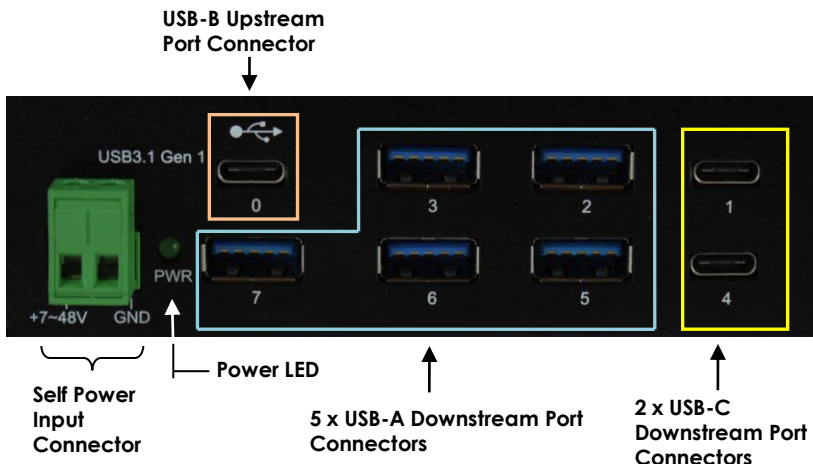
1. Introduction

Thank you for purchasing this Super-speed 7-port USB3.1 Gen 1 Type-C hub. It provides an ideal solution to expand 7 USB3.1 ports (2 USB-C and 5 USB-A connectors) from one single USB3.1 USB-C host port. It provides a self power input (+7~48V DC from 2-pin Terminal Blocks) to provide enough power on USB3.1 downstream facing ports.

Features:

- ✓ Compliant with USB3.1 Gen 1 Specifications
- ✓ Rigid Wall and DIN RAIL Mountable Metal Case
- ✓ Supports 1 USB-C Upstream Facing Port
- ✓ Provides 7 (2 USB-C and 5 USB-A) Downstream USB3.1 Facing Ports
- ✓ Supports 5Gbps (Super-speed), 480Mbps (High-speed), 12Mbps Full-speed) and 1.5Mbps (Low-speed) Speed
- ✓ Supports 15KV ESD Surge Protection
- ✓ Multi Transaction Translators (TT) per Hub
- ✓ Support USB Battery Charging: CDP and DCP modes

2. Connector Layout

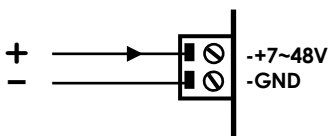


- **Power LED:** Turns on indicates the hub was powered by either the Bus-Power or the Self-Power.
- **USB-C Upstream Facing Port Connector:** The Type-C connector upstream USB3.1 port. It is connected from host or another USB3.1 hub's downstream facing port.
- **USB-C Downstream Facing Port Connectors:** The two small 24-pin USB-C connectors are fully reversible-plug connectors for USB devices and USB cabling.
- **USB-A Downstream Facing Port Connectors:** There are 5 USB-A connectors for standard USB3.1 and Legacy USB2.0/1.1 devices.
- **Self Power Input Connector:** This 2-pin (one pin plus voltage and the other pin is GND) terminal blocks is used to connect wide range power source to self-power the hub, the voltage can be in the range from +7V to 48V DC.



Warning!!

Please make sure the polarity of the input power should be correctly match the terminal block pins



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 48V) to the 2-pin Terminal Block Connector.** The hub was bus-powered by the upstream USB port (USB-C connector), this terminal block connector is to add power to ensure enough power for the 7 downstream ports.
3. **Connecting USB Host cable:** The host cable can be a standard C-to-A or C-C USB3.1 cable (depends on the host port's

connector type). Please connect the type-A (or Type-C) end connector of the cable to your USB host port, then connect the type-C 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.



Note: In some cases, you will see an error message said that the USB Hub caused the USB bus power over the current limit, please ignore this message since the hub is hot plug and its power capacitor will cause a very short period of current. It will NOT affect your USB function.

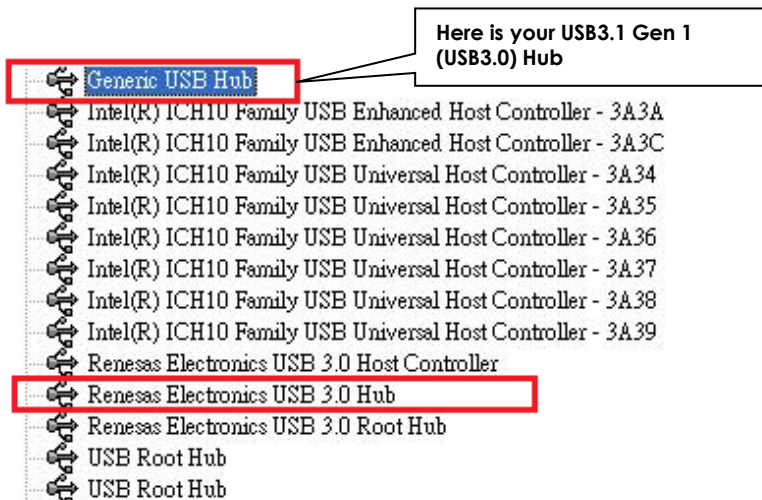
- 4. Connect the USB devices to the downstream ports of this hub.**
- 5. Mount your hub on the wall or DIN RAIL if required.**



4. Checking the USB3.0 Hub Installation

To check the USB3.1 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 70°C (32 to 158°F)
Operating humidity:	5 to 95% RH
Dimensions (LxWxH):	5.23"(L)x2.42"(W)x1.43"(H) (13.30x6.15x3.63 cm)