7-Port USB 3.0 Metal Hub with Surge Protection – Installation Guide
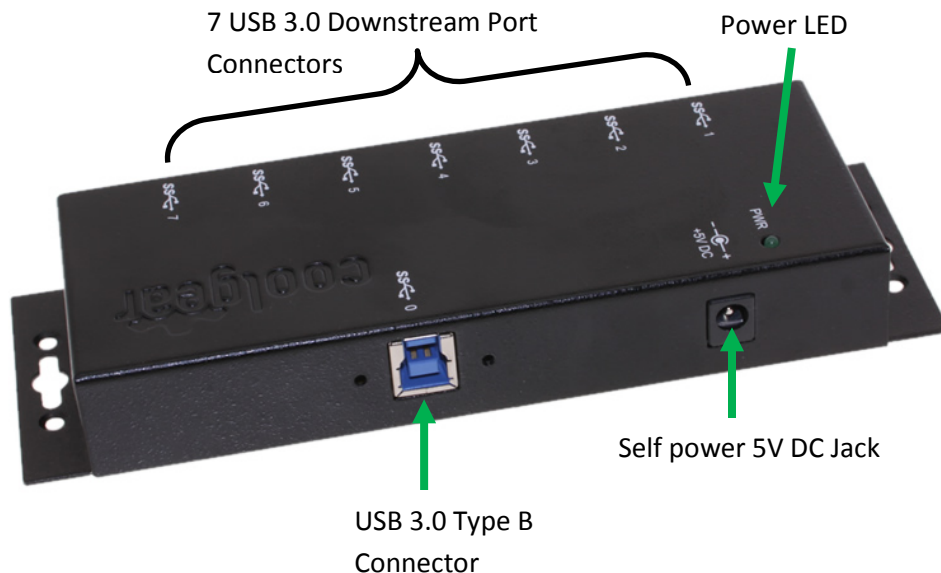
1. Introduction: **CG-7U3DS**

The Super-Speed 7-port USB 3.0 hub provides an ideal solution to expand 7 USB 3.0 ports from one single USB 3.0 host port. It provides a DC Jack with self power source (5V DC) to supply enough power on USB 3.0 buses.

FEATURES:

- Compliant with USB Specification Revision 3.0
- Rigid and Wall-mountable Metal Case
- Provides 7 Downstream USB 3.0 Facing Ports
- Supports 5Gbps (Super-Speed), 480Mbps (High-Speed), 12Mbps (Full-Speed), and 1.5Mbps (Low-Speed) speed
- Supports 350-Watt Surge Protection for each Port
- Multi Transaction Translators (TT) per Hub
- Supports USB Battery Charging: CDP and DCP modes
- Supports DIN RAIL Mounting Clips

2. Connector Layout

7 USB 3.0 Downstream Port Connectors

Power LED

Self power 5V DC Jack

USB 3.0 Type B Connector

- **USB 3.0 Upstream Port Connector:** Type-B connector from upstream USB 3.0 port. It is connected for host or another USB 3.0 hub. Supports both normal and Screw-Lock type USB cables.

- **USB 3.0 Downstream Port Connectors:** There are 7 Type-A connectors for USB 3.0, USB 2.0 or USB 1.1 devices. They support normal 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.
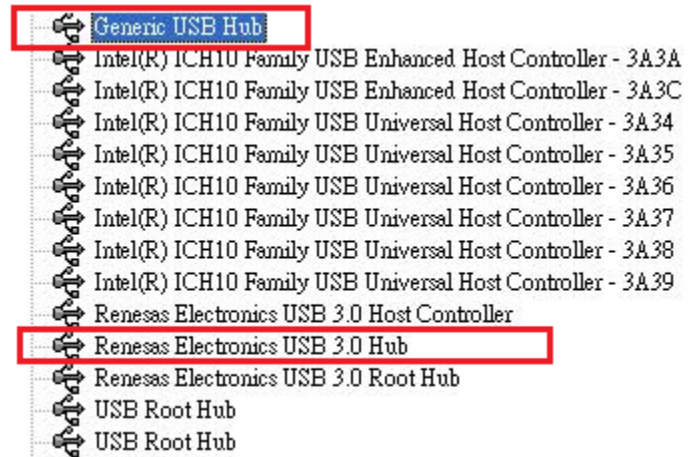
3. Hardware Installation

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 +5V DC power to the DC Jack Connector.** The hub was self-powered by this connector.
3. **Connecting USB Host cables:** The host cable could be either a standard A-to-B USB 3.0 cable or an optional A-to-B USB 3.0 screw-lock cable. Please connect the type-A end connector of the cable to your PC's host USB 3.0 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 Hub Installation

To check the USB hub installation in Windows device manager, please follow the following steps:

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

Generic USB Hub
Intel(R) ICH10 Family USB Enhanced Host Controller - 3A3A
Intel(R) ICH10 Family USB Enhanced Host Controller - 3A3C
Intel(R) ICH10 Family USB Universal Host Controller - 3A34
Intel(R) ICH10 Family USB Universal Host Controller - 3A35
Intel(R) ICH10 Family USB Universal Host Controller - 3A36
Intel(R) ICH10 Family USB Universal Host Controller - 3A37
Intel(R) ICH10 Family USB Universal Host Controller - 3A38
Intel(R) ICH10 Family USB Universal Host Controller - 3A39
Renesas Electronics USB 3.0 Host Controller
Renesas Electronics USB 3.0 Hub
Renesas Electronics USB 3.0 Root Hub
USB Root Hub
USB Root Hub

5. Environmental Specifications

Operating Temperature:	0 to 55°C (32 to 131°F)
Operating Humidity:	5 to 95% RH
Dimensions (LxWxH):	6.83"(L) x 2.35" (W) x 0.92" (H)
	(17.35 x 5.96 x 2.34 cm)