



10 Port Managed Network Shareable USB 3.2 Gen 1 Hub

w/ 15KV ESD Surge Protection

Model Number: *CG-10PU3MGD-NT*

Installation Guide

Coolgear, Inc.

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Revision History

Revision	Date	Comments
1.0	05/07/2024	First Release

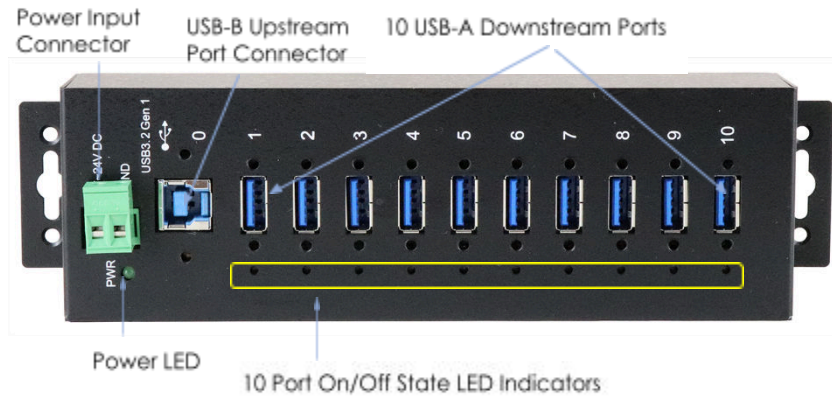
1. Introduction

Thank you for purchasing Coolgear's 10 Port Managed Network Shareable USB 3.2 Gen 1 Hub. The Super-speed Hub comes with management software utilities that allow you to share and connect USB devices (only for Windows), as well as turn on/off the bus power (for Windows, Mac OS and Linux) of each downstream device or reset the entire hub using user or application programs. This enables the success of your critical USB applications instantly and improves your investment returns.

Features:

- ✓ Compliant with USB Specification 3.2 Gen 1
- ✓ Metal Case, DIN Rail and wall mountable
- ✓ Share and Connect USB Devices over Ethernet/Internet (for Windows only)
- ✓ Software Manageable Bus power for each Port
- ✓ Supports software utilities for Windows (XP and above), Linux
- ✓ Provides 10 Downstream USB3.2 Gen 1 Facing Ports (see Note 1)
- ✓ Provides 10 LEDs Indicating each bus power states
- ✓ Supports 5Gbps (Super-speed), 480Mbps (High speed), 12Mbps (Full-speed) and 1.5Mbps (Low-speed) Speed
- ✓ Supports 15KV ESD Level 4 Protection for Each Port
- ✓ Supports +7~24V DC Wide Range Input Power
- ✓ Supports USB Battery Charging v1.2 : CDP, DCP modes

2. Connector Layout



1. **USB-A Downstream Facing Port Connectors:** There are 10 USB-A connectors for standard USB3.2 Gen 1 and legacy USB2.0/1.1.

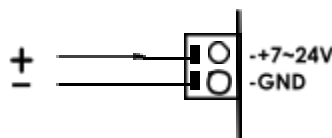
Note: The last USB port (Port 10) of this hub does NOT support USB2.0/1.1 devices because it is used to communicate with the managing utilities. However, it still supports USB3.2 Gen 1 devices.

2. **USB-B Upstream Facing Port Connector:** This Type-B connector is used to connect the hub to an upstream USB3.2 Gen 1 port, either on a host or another USB3.2 hub's downstream facing port.
3. **Power LED:** This LED turns on to indicate that the hub is powered.
4. **Port State Indicator LEDs:** Each port has an LED next to it. When the LED is on, it indicates that the USB device is enabled (connected). If the LED is off, the USB device is disabled (disconnected).
5. **Self Power Input Connector:** This 2-pin terminal block is used to connect a wide range power source to self-power the hub. One pin is for the positive voltage and the other pin is for GND. The voltage can be in the range of +7V to 24V DC.

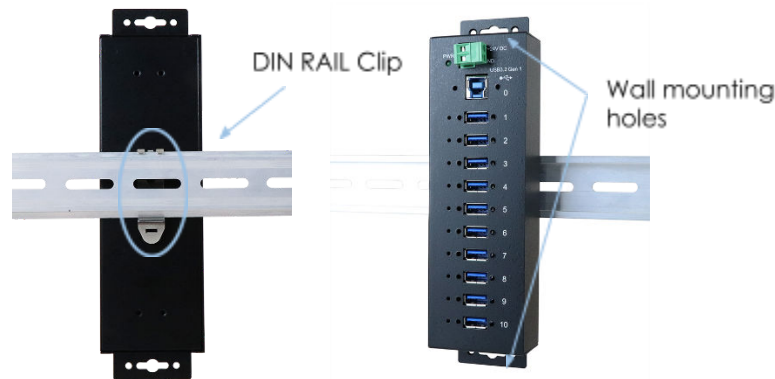
3. Hardware Installation

1. Use static electricity discharge precautions. Before installation, remove any potential for static discharge from objects that the hub may come in contact with. This can be done by touching a bare metal chassis rail after you have turned off the power.
2. Apply DC power (in the range of +7V to 24V) to the 2-pin Terminal Block Connector.

WARNING: Please ensure that the polarity of the input power correctly matches the terminal block pins.



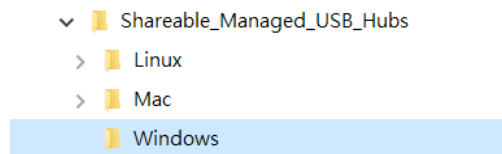
3. Connecting the USB Host cable: The host cable can be either a standard B-to-A or B-to-C USB3.2 Gen 1 cable, depending on the connector type of the host port. Please connect the Type-A (or Type-C) end of the cable to your USB host port, and then connect the Type-B end of the cable to this hub. Since the USB hub is plug-and-play, you do not 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.



6. Install the CUDS Administrator Utilities as described in the following chapter

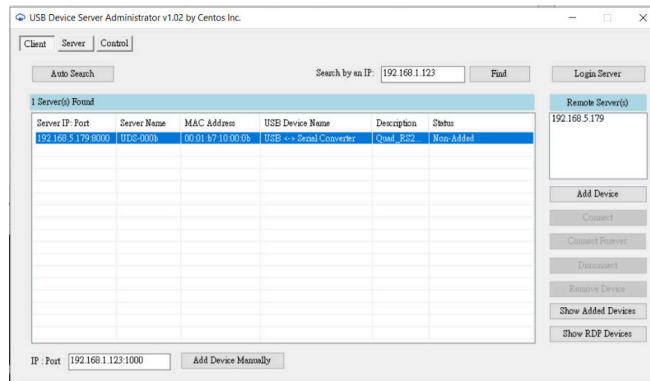
4. Installing the CUDS Administrator Utilities

The Hub supports management utilities called CUDS Administrator (Centos USB Device Server Administrator) for major recent versions of Windows (XP and above).

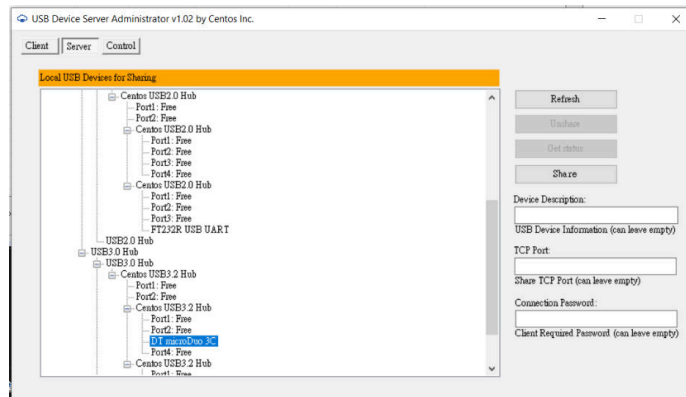


- A. The above folders include software for different platforms (please note that the shareable feature is not supported in Mac OS and Linux).
- B. If you are installing it on Windows, please find the executable setup program in the Windows folder and double-click it.
- C. Please follow the on-screen instructions of the setup program to complete the installation. After installation, launch the utility:

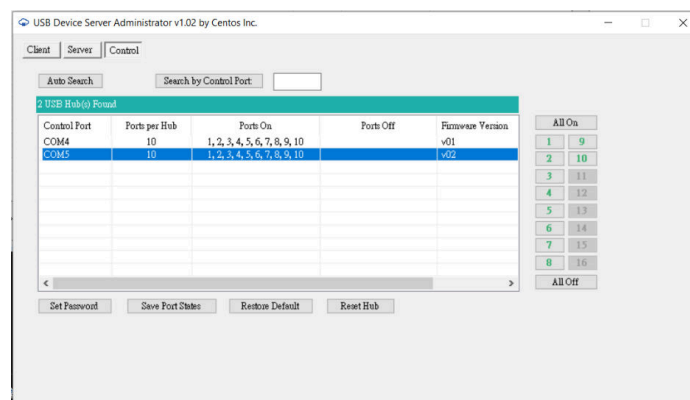
1. Click the "**Client**" tab to find all shared USB devices to connect.



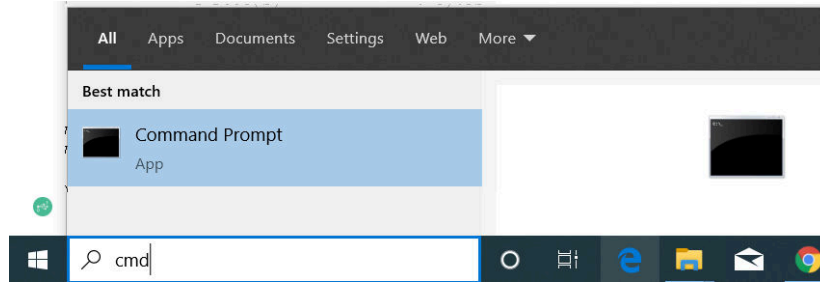
2. Click the "**Server**" tab to share the USB devices of the Hub on Ethernet/Internet.



3. Click the "**Control**" tab to switch on/off the USB device(s).



4. To use the console utility CUSBC to control the USB devices, please run Command Prompt as follows:



- A. To see all CUSBC commands, type:

CUSBC /?

```
CUSBC v1.03
Usage: CUSBC command [password] [argument]
command:
  /Q      query (no password is required)
Usage:  CUSBC /Q [option]
```

- B. To query all Hubs connected:

CUSBC /Q

```
C:\>CUSBC /Q
1 USB Managed Hub(s) Found.
COM39, 10 ports, On=1,2,3,4,5,6,7,8,9,10, Off=None, FW=v01
```

5. Restore to Factory Settings

To perform a factory reset:

1. Power on the Hub, verify that your hub's Power LED is on.
2. On the side of your hub, locate the hole of the Restore Factory Settings button:



3. Use a paper clip or similar object to press and hold the Restore Factory Settings button for at least 7 seconds, then release.
4. Your hub will reset to its factory default settings:
 - All ports will be **On**
 - The password will be reset to **"pass"**

6. Environmental Specifications

Operating temp.:	0 to 55°C (32 to 131°F)
Operating humidity:	5 to 95% RH
Dimensions (LxWxH):	197.7x55.5x31.0 mm (7.78 x 2.18 x 1.22 in)

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Safety

- Read the entire Installation Guide before implementing this product for your application. This guide contains important information about electrical connections that must be followed for safe and proper operation.
- Inspect the product closely for visual defects before putting it to use.
- Keep away from areas where moisture builds, this product contains electrical components that can be damaged by moisture build up, this can adversely affect your equipment connected to it.
- Do not disassemble the product. Handling the product's internal components can expose it to ESD (Electro-Static Discharge) hazards that can affect the function of the device.
- If this product is not functioning properly, email our support team at support@coolgear.com.

USB CHARGING & CONNECTIVITY EXPERTS

Within Every Great Machine

For over 20 years our rugged, off-the-shelf USB hubs, chargers, and serial products are ready to go for your next project. Based in the US, Coolgear has successfully engineered and deployed millions of connectivity solutions into industrial, medical, automotive, commercial, and aerospace industries.

We understand the importance of reliability, build quality, & consider all our customers' applications as critical, wanting to ensure long-lasting event-free integrations.

Compliance Statement

View compliance within the product's respective Technical Data Sheet, found on the product's online listing.

Technical Support

When you reach out to Coolgear support, you'll find yourself in the hands of a solution-oriented and knowledgeable expert ready to answer whatever question you throw at them. If you ever need help with your product, visit coolgear.com/support for support tickets, downloads, and other support resources. For the latest drivers, please visit coolgear.com/download.

Product Standard Warranty

One (1) Year Warranty from Date of Purchase Invoice. Coolgear will repair or replace any Product determined to be defective and which has been returned, at your risk and expense, to Coolgear. Where Coolgear determines in its sole judgment that repair or replacement of such Product is not reasonable, Coolgear will keep the non-conforming Product and refund to you the amount you paid for such Product. Returned Products shall be subject to the balance of the Warranty Period otherwise applicable. Any reconditioned parts used by Coolgear shall be subject to all the same provisions as otherwise applicable to new parts. THE FOREGOING DESCRIBES COOLGEAR'S SOLE LIABILITY, AND YOUR SOLE REMEDY, FOR ANY BREACH OF WARRANTY. IF YOU DO NOT AGREE WITH THE TERMS OF THIS LIMITED WARRANTY, YOU MUST RETURN THE PRODUCTS UNUSED AND IN THEIR ORIGINAL CONTAINERS TO YOUR ORIGIN OF PURCHASE.

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