Metal 4 Port USB 3.1 Gen2 Hub Type-C and Type-A Ports – Mounting Kit

Product Manual

Coolgear, Inc.

Version 1.1

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Model Number: CG-4PG2MHUB

Revision History

Revision	Date	Author	Comments
1.0	9/6/2018	Coolgear	Original format

About this document

This product manual outlines installation and features of the CG-4PG2MHUB Metal 4 Port USB 3.1 Gen2 Hub Type-C and Type-A Ports – Mounting Kit.

Scope

The scope of this manual is to give the user of the product an understanding of its use with detailed diagrams and verbiage. The manual allows the users to apply the product to their application.

Intended Audience

This product is intended for use in numerous industries including but not limited to applications such as; Industrial, Machine Equipment, Office Equipment, Super-Speed Data Transfer, and others.

Product Support

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1. Introduction

Coolgear CG-4PG2MHUB USB 3.1 Hub with 2 Type-C and 2 Type-A downstream ports provides up to 10Gbps data transmission. It includes a rigid Wall and DIN Rail Mounting Kit to support its metal case construction. Both USB-A and USB-C connect securely with locking screw cables. It is backward compatible with your earlier versions of USB data speeds, light weight, and versatile.

WEIGHT	.68lbs
DIMENSIONS	5.23in(L) x 2.42in(W) x 1.43in(H) (133.0 x 61.5 x 36.3mm)
UPC	045079161016
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	2x Type-C Ports / 2x Type-A Ports
UPSTREAM PORTS	1x Type-C Port

1.1 Features

- Compliant with USB 3.1 Gen2 Specifications.
- Rigid wall and DIN Rail mountable metal case.
- Metal Case, Ideal for Critical Applications
- Provides 4 (2 USB-C female and 2 female USB-A) Downstream facing USB 3.1 Ports.

- Supports 10Gbps(Super-Speed Plus), 5Gbps (Super-Speed), 480Mbps(High-Speed), 12Mbps(Full-Speed), and 1.5Mbps(Low-Speed) data rates.
- Multi Transaction Translators (TT) per Hub.
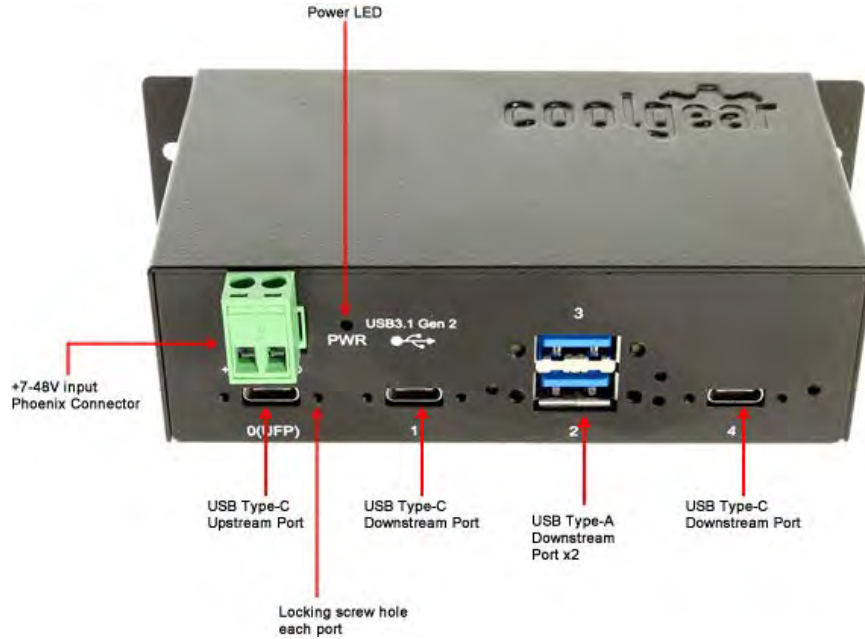- Support USB Battery Charging: SDP, CDP and DCP modes.

1.2 Connector Layout

Figure 1 Layout Diagram

USB 3.0 Upstream Port	USB 3.0 Downstream Port	Self Power Input
USB Type-C connector from upstream USB 3.1 port. It is connected from host or another USB 3.1 hub. Supports both normal and screw-lock type USB cables.	There are two Type-A downstream ports and two USB Type-C downstream ports for USB 3.1 applications.	This 2-pin (one pin for positive voltage and the other pin is GND) Phoenix connector is used to connect strong power to self-power the hub; the voltage can be in the range from +7V to 48V DC.

1.3 Mounting Options

Figure 2 Mounting Options

1.4 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 Phoenix connector**. The hub is self-powered by this connector.
3. **Connecting USB Host cables:** The host cable could be either a standard A-to-C USB 3.1 cable or an optional A-to-C USB 3.1 screw-lock cable. Please connect the Type-A end connector of the cable to your PC's host USB 3.1 port, then insert the type-C end connector to this hub's upstream port. (If your computer has a USB-C host port, you can use the included USB-C to C cable for your host connection.)
4. **Connect the USB Devices to the downstream ports of this hub.**
5. **Mount your hub on the wall or DIN RAIL if required.** Mounting options are pictured in figure 2 above.

1.5 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

Figure 3 Check Installation

1.6 Environmental Specifications

Specification	Data
Operating Temperature:	0-70°C (32 to 131°F)
Operating Humidity:	5 to 95% RH

2. Notes, Tips, Warnings, and Safety

Note	N/A

Tip	N/A

Warning	Please make sure the polarity of the input power is correctly matched with the Phoenix connector's pins to function properly.

Safety	• Read the entire Product Manual before implementing this product for your application. This manual 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.

3. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/metal-4-port-usb-31-gen2-hub-10gbps-type-c-type-a-ports-mounting-kit