



USB 3.0 4-Port Industrial Hub Metal Case

Product Manual



Coolgear, Inc.

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Model Number: USBG-4U3ML

Revision History

Revision	Date	Author	Comments
1.0	07/14/2015	Coolgear	Original format
1.1	09/27/2017	Coolgear	New Manual Format

About this document

This product manual outlines installation and features of the USBG-4U3ML USB 3.0 4-Port Industrial Hub Metal Case.

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; Automotive, Machine Equipment, Kiosk, Office, and others.

Product Support

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1. Introduction

Super-Speed 4-port USB 3.0 hub providing an ideal solution to expand 4 USB 3.0 ports from one single USB 3.0 host port. It provides a wide range self power source (+12~24VDC from 2-pin Terminal Blocks) to supply enough power on USB 3.0 buses.

WEIGHT	1.1 lbs
DIMENSIONS	(14.25 x 6.52 x 2.62 cm)
UPC	729440690540
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	4 USB 3.0 Type-A Ports
UPSTREAM PORTS	1 USB 3.0 Type-B Port

1.1 Features

- Compliant with USB Specification Revision 3.0
- Rigid and Wall-mountable Metal Case
- Provides 4 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 USB Screw-Lock Cable Mechanism
- Supports DIN RAIL Mounting Kit

1.2 Connector Layout

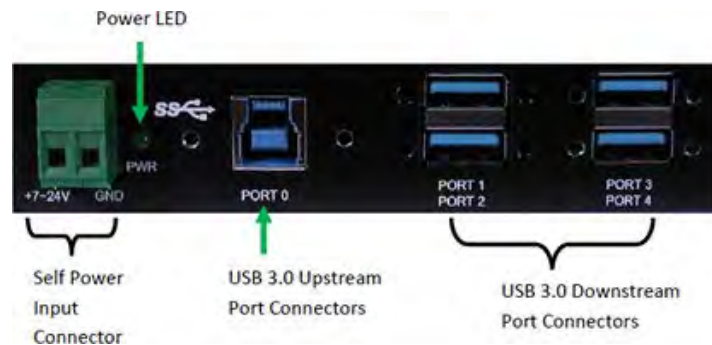


Figure 1

USB 3.0 Upstream Port	USB 3.0 Downstream Port	Self Power Input
Type-B connector from upstream USB3.0 port. It is connected from host or another USB3.0 hub. Supports both normal and screw-lock type USB cables.	There are 4 Type-A connectors for USB3.0, USB2.0 or USB1.1 devices. They support both normal and screw-lock type USB cables.	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.



Figure 2

1.3 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 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.**

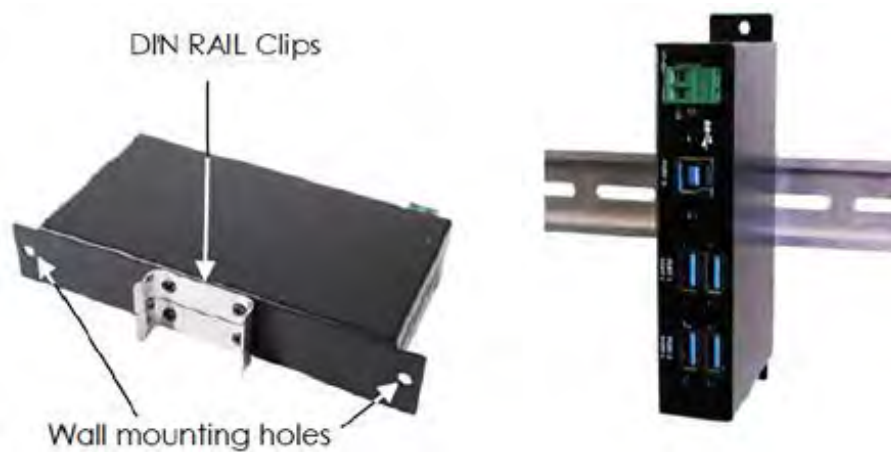


Figure 3

1.4 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

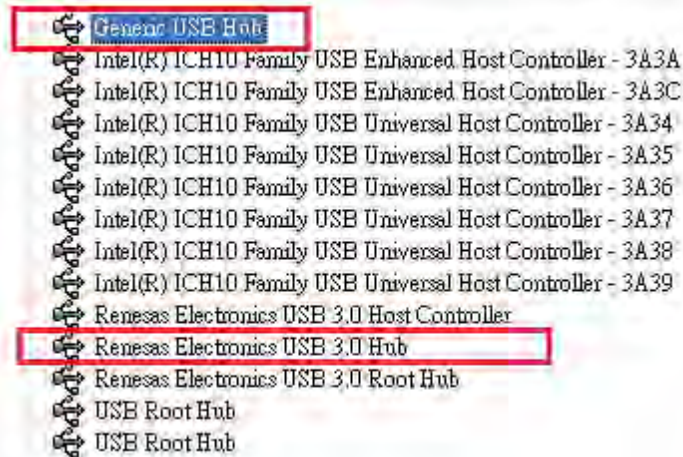


Figure 4

1.5 Environmental Specifications

Specification	Data
Operating Temperature:	0-55°C (32 to 131°F)
Operating Humidity:	5 to 95% RH

2. Notes, Tips, and Warnings

Note N/A

Tip N/A

Warning

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

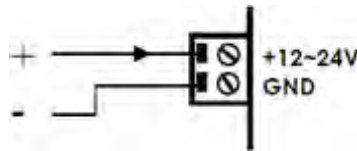


Figure 5

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/usb-3-0-4-port-industrial-hub-metal-case

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