Mountable 12-Port USB 3.0 Powered Industrial Hub PC-MAC

Product Manual

Coolgear, Inc.
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Model Number: USBG-12U3ML

Revision History

Revision	Date	Author	Comments
1.0	2014-10-07	Coolgear	Original format
1.1	2017-03-10	Coolgear	New Manual Format
1.2	2022-03-17	Coolgear	Corrected inaccurate Voltage data

About this document

This product manual outlines installation and features of the USBG-12U3ML Mountable 12-Port USB 3.0 Powered Industrial Hub PC-MAC.

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

support@coolgear.com

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1. Introduction

The Super-Speed 12-Port USB 3.0 Powered Hub is backward compatible with USB 2.0 and 1.1 specifications. It provides an out of the box industry standard that allows connection of up to twelve USB peripherals or devices to your PC or Mac USB ready host.

WEIGHT	.887 lbs
DIMENSIONS	5.132in(L) (6.147 w/flange) x 2.615in(W) x 2.029in(H)
UPC	729440692100
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	12 USB 3.0 Type-A Ports
UPSTREAM PORTS	1 USB 3.0 Type-B Port
Max Per-Port Power output	900mA (4.5W)
Max Overall Output	48W

1.1 Features

- Compliant with USB 3.0 Specification
- Metal Case, Ideal for Critical Applications
- One Up-stream Port (Type-B) Support Super-speed
- Provides 12 Down-stream Ports (Type-A)
- Supports 7 Concurrent Non-periodic Transactions
- Optional DIN RAIL Mounting Kit
- Supports 5,000Mbps, 480Mbps, 12Mbps and 1.5Mbps Speed
- LED Status Indicators

1.2 Connector Layout
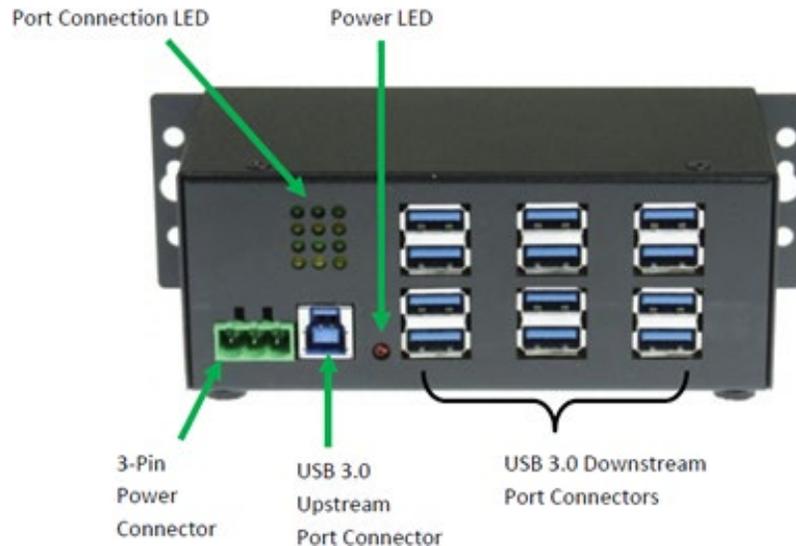
Figure 1

USB 3.0 Upstream Port	USB 3.0 Downstream Port	Self Power Input
Type-B connector from upstream USB 3.0 port. It is connected from host or another USB 3.0 hub. Supports normal type USB cables.	There are 12 Type-A downstream connectors for USB 3.0, USB 2.0 or USB 1.1 devices. They support normal type USB cables.	This 3-pin terminal block connector is used to connect strong power to self-power the hub; the voltage can be in the range from +9V to 30V.

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 +9V to 30V) to the 3-pin Terminal Block Connector**. The hub is self-powered by this connector.
3. **Connecting USB Host cables:** The host cable is a standard A-to-B USB 3.0 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.**

1.4 Checking the Hub Installation

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

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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

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Figure 2

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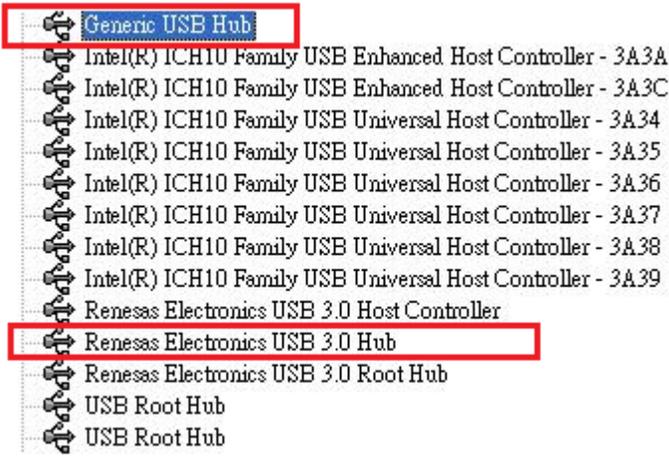
1.5 Environmental Specifications

Specification	Data
Operating Temperature:	0-55°C (32 to 131°F)
Operating Humidity:	5 to 95% RH
Storage Temperature	-20°C to 85°C (-4 to 185°F)

2. Notes, Tips, Warnings, and Safety

Note	N/A

Tip	N/A

Warning	N/A

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/mountable-12-port-usb-3-0-powered-industrial-hub-pc-mac