



# Industrial 12-Port USB 2.0 Powered Hub for PC-MAC DIN-RAIL Mount

Model Number: *USBG-12U2ML*

## Product Manual

**Coolgear, Inc.**

Version: 2

Revision: 0

Date: 2022-03-23



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## Revision History

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Revision	Date	Comments
1.0	2015-07-14	First Release
1.1	2017-05-10	New Format
1.2	2022-03-20	Added input voltage details.
2.0	2022-03-23	New Format

## 1. Introduction

12-Port USB 2.0 powered hi-speed hub enabling you to connect 12 additional USB peripherals to your system. Industrial-grade metal chassis supporting rugged use and is backward compatible with USB 1.0/1.1. It is targeted at PC and Mac Industrial Application users that are expanding the number of USB ports on their system.

<b>Weight</b>	.843 lbs
<b>Dimensions</b>	5.132in(L) (6.147 w/flange) x 2.615in(W) x 2.029in(H)
<b>UPC</b>	729440625146
<b>Model No.</b>	USBG-12U2ML
<b>Color</b>	Black
<b>Downstream Ports</b>	12 USB Type-A Ports
<b>Upstream Ports</b>	1 USB Type-B Port
<b>Input Voltage</b>	7~36V DC

### 1.1 Features

- Compliant with USB Specification Revision 2.0
- Rigid and Wall-mountable Metal Case
- Supports High-speed and or Full-speed
- Provides 12 Downstream Facing Ports
- Supports 480Mbps, 12Mbps and 1.5Mbps Speed

## 1.2 Connectors

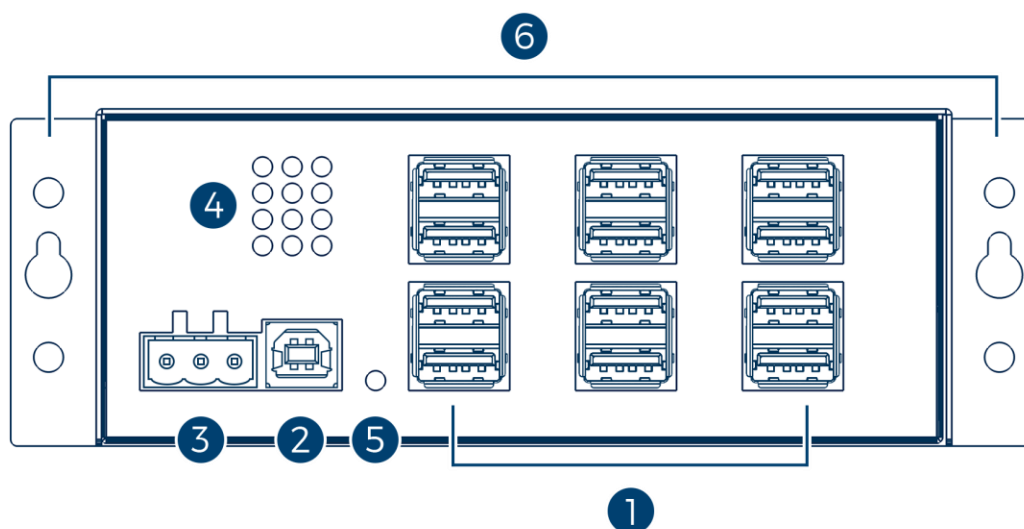


Figure 1 - USBG-12U2ML Front View

1	Downstream Device Ports	12x, USB 2.0, Female Type-A
2	Upstream Host Port	USB 2.0, Female Type-B
3	Power Connector	Phoenix 3-pin, 5.08mm
4	Downstream Port Status LEDs	12x, Alternating Green & Amber, illuminates when downstream device connected.
5	Power Status LED	Red, illuminates when power & host connected
6	Mounting bracket	Fixed Non-Removable.

Downstream Ports	Upstream Ports	Power Input
12x USB Type-A Female <ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• 480 Mbit</li> <li>• Power &amp; data</li> </ul>	USB Type-B Female <ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• 480 Mbit</li> <li>• Data Only</li> </ul>	3-pin Din Rail “Phoenix”-style. <ul style="list-style-type: none"> <li>• 7~36V DC</li> </ul>

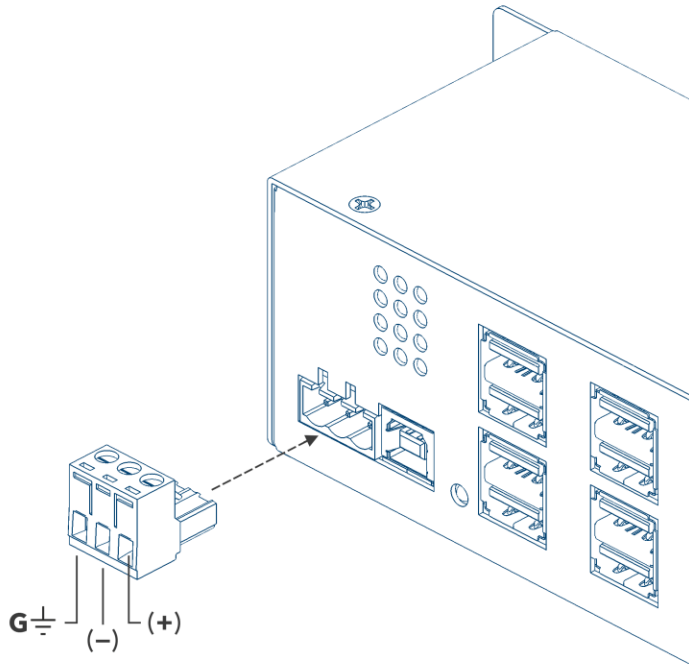


Figure 2 - Power Connector

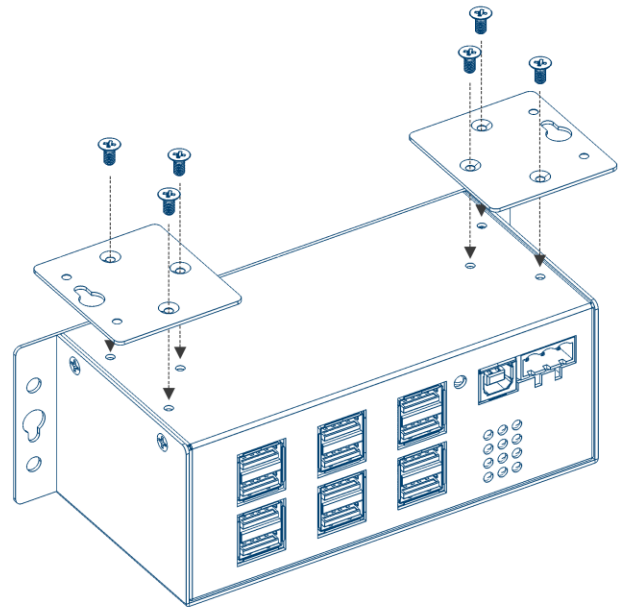


Figure 3 - Optional Mounting Brackets

## 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. **Attach the AC power adapter.**
3. **Connecting USB Host cable:** The host cable is a standard A-to-B USB 2.0 cable. Please connect the Type-A end connector of the cable to your USB Host or PC, then connect 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. **(OPTIONAL) Mount your hub on the wall/surface or DIN RAIL.**

## 1.4 Supported USB Devices

- Supports keyboard, mouse, monitor, scanner, printer, PC Camera, telephone, DVD drive, joystick, virtual reality helmet, modem, PBX and many more USB devices.

## 1.5 Environmental Specifications

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

## 1.6 Package Contents



Figure 4 - Package Contents

- USBG-12U2ML USB 2.0 Hub
- USB 2.0 A-Male to B-Male USB cable
- 2x Mounting plates and screws
- 3-pin Phoenix power connector

*Power supply not included*

## 2. Notes, Tips, Warnings, and Safety

### Note

This product requires external power source to function. If the power LED is not illuminating after connecting, check that the power source is connected to the hub correctly, and is powered on.

### 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](mailto: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.

## 2.1 Supporting References

Document	Link
Website Product Page	<a href="https://www.coolgear.com/product/industrial-12-port-usb-2-0-powered-hub-for-pc-mac-din-rail-mount">https://www.coolgear.com/product/industrial-12-port-usb-2-0-powered-hub-for-pc-mac-din-rail-mount</a>

### 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](https://coolgear.com/support) for support tickets, downloads, and other support resources. For the latest drivers, please visit [coolgear.com/download](https://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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