

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



**Product Manual** 

Coolgear, Inc. Version 1.1 September 2017 Model Number: USBG-12U2ML

www.coolgear.com



#### **Revision History**

Revision	Date	Author	Comments
1.0	07/14/2015	Coolgear	Original format
1.1	10/5/2017	Coolgear	New Manual Format

#### About this document

This product manual outlines installation and features of the USBG-12U2ML Industrial 12-Port USB 2.0 Powered Hub for PC-MAC DIN-RAIL Mount.

#### 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; Data Centers, Machine Equipment, Kiosk, Office Devices, and others.

#### **Product Support**

support@coolgear.com

# **Table of Contents**

1.	Introduction	.4
	Features	
	Connector Layout	
1.3	Hardware Installation	5
1.4	Checking the Hub Installation	6
1.5	Environmental Specifications	6
2.	Notes, Tips, Warnings, and Safety	.7
3.	Supporting References	.8

# **Table of Figures**

Figure 1 – Full Connector Layout	5
Figure 2 - Device Manager Image	6



## 1. Introduction

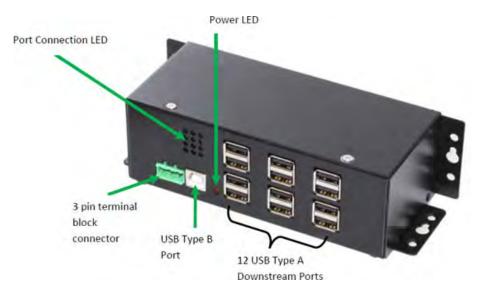
12-Port USB 2.0 powered hi-speed hub enabling you to connect 12 additional USB peripherals to your system. Industrial-grade metal chassis supporting rugged use and is backward compatible with USB 1.0/1.1. It is targeted at PC and Mac Industrial Application users that are expanding the number of USB ports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

WEIGHT	.843 lbs
DIMENSIONS	5.132in(L) (6.147 w/flange) x 2.615in(W) x 2.029in(H)
UPC	729440625146
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	12 USB Type-A Ports
UPSTREAM PORTS	1 USB Type-B Port

#### **1.1 Features**

<ul> <li>Compliant with USB Specification</li></ul>	<ul> <li>Protocol Sequencer for Endpoint 0/1</li> <li>Multi Transaction Translator (per hub</li></ul>
Revision 2.0 <li>Rigid and Wall-mountable Metal Case</li> <li>Supports High-speed and or Full-speed</li>	12 concurrent non-periodic
Packet <li>Built-in Multi-TT Chip USB 2.0 Hub</li>	transactions <li>Provides 12 Downstream Facing Ports</li> <li>Supports 480Mbps, 12Mbps and</li>
Controller	1.5Mbps Speed <li>Supports Self-powered Mode</li>

### 1.2 Connector Layout



#### Figure 1

+7~24V 3-Pin Terminal	USB 2.0 Upstream Port	AC Power Adapter
A 3-Pin Terminal Block Connector supplies power for the use of this product. The AC adapter's output has to be connected to here.	Type-B connector from upstream USB 2.0 port. It is connected from host or another USB 2.0 hub.	This adapter is required for supplying 110/220 AC power from a wall plug to the hub

#### **1.3 Hardware Installation**

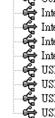
- 1. Use static electricity discharge precautions. Remove possible static discharge potential from any objects that the hub may come in contact with before installation. This can be accomplished by touching a bare metal chassis rail after you have turned off the power.
- 2. Attach the AC power adapter.
- 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 upstream USB port, 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. 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:

- 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



Generic USB Hub Intel(r) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD Intel(r) 82801DB/DBM USB Universal Host Controller - 24C2 Intel(r) 82801DB/DBM USB Universal Host Controller - 24C4 Intel(r) 82801DB/DBM USB Universal Host Controller - 24C7 USB Root Hub USB Root Hub USB Root Hub Figure 2

#### **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	In some cases, you will see an error message said that the USB Hub caused the USB bus power over the current limit, please ignore this message since the hub is hot plug and its power capacitor will cause a very short period of current. It will NOT affect your USB function. Reference Section 1.3 Hardware Installation.

Тір	N/A	

Warning N/A	
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Safety

7



## 3. Supporting References

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

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