

Industrial 4-Port USB 2.0 Powered Hub for PC-MAC DIN-RAIL Mount



Product Manual

Coolgear, Inc. Version 1.1 September 2017 Model Number: USBG-4U2ML

www.coolgear.com



Revision History

Revision	Date	Author	Comments
1.0	07/14/2015	Coolgear	Original format
1.1	09/25/2017	Coolgear	New Manual Format

About this document

This product manual outlines installation and features of the USBG-4U2ML USB 2.0 industrial 4 port hub.

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, Banking, Warehouse, and others.

Product Support

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Table of Contents

1.	Introduction4
1.1	Features
1.2	Hardware Installation5
1.3	Checking the Hub Installation6
1.4	Environmental Specifications6
2.	Notes, Tips, Warnings and Safety7
3.	Supporting References

Table of Figures

Figure 1 – LED Diagram	5
Figure 2 – Device Manager Generic Hub	6



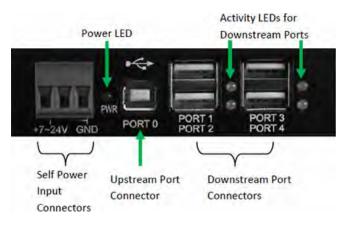
1. Introduction

The High-Speed 4-port USB 2.0 hub provides an ideal solution to expand 4 USB 2.0 ports from one single USB 2.0 host port. It provides a self power source (+7~24VDC from 3-pin Terminal Blocks) to provide enough power on USB 2.0 buses.

WEIGHT	.85 lbs
DIMENSIONS	4.50"(L) x 2.26" (W) x 1.03" (H)
	(11.45 x 5.73 x 2.63 cm)
UPC	729440625122
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	4 USB Type-A Ports
UPSTREAM PORTS	1 USB Type-B Port
SYSTEM REQUIREMENTS	Compatible with all USB enabled operating systems.

1.1 Features

- Compliant with USB Specification Revision 2.0
- Rigid and Wall-mountable Metal Case
- Supports High-speed and or Full-speed Packet
- Protocol Sequencer for Endpoint 0/1
- Provides 4 Downstream Facing Ports
- Supports 480Mbps, 12Mbps, and 1.5Mbps Speed
- Supports Self-powered and Buspowered Mode





Downstream Activity LED	Upstream Port	Self Power Input	
These 4 LED indicators are blinking whenever the USB ports are transferring data.	Type-B connector from upstream USB 2.0 port. It is connected from host or another USB 2.0 hub.	This 3-pin (one pin plus voltage and the other 2 pins are GND) terminal block connectors are used to connect strong power to self-power the hub, the voltage can be in the range from +7V to 24VDC.	

Figure 1

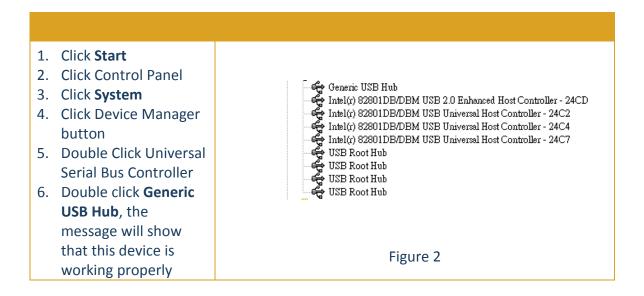
1.2 Hardware Installation

- 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.
- Apply DC power (range from +7V to 24V) to the 3-pin Terminal Block Connector. The hub was bus-powered by the upstream USB port; this terminal block connector is to add power to ensure enough power for the 4 downstream ports.
- 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.



1.3 Checking the Hub Installation

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



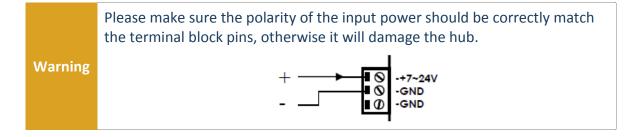
1.4 Environmental Specifications

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

2. Notes, Tips, Warnings, and Safety

 In some cases, during hardware installation, 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 1.2 Hardware Installation.

Тір	N/A





3. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/industrial- 4-port-usb-2-0-powered-hub-for-pc-mac-din- rail-mount

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