Metal 4-Port USB 2.0 Powered Hub for Industrial Use w/Screw Lock

Product Manual

Coolgear, Inc.
Version 1.1
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Model Number: USBG-4SU2MLA

Revision History

Revision	Date	Author	Comments
1.0	07/14/2015	Coolgear	Original format
1.1	10/19/2017	Coolgear	New Manual Format

About this document

This product manual outlines installation and features of the USBG-4SU2MLA Metal 4-Port USB 2.0 Powered Hub for Industrial Use w/ Screw Lock.

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

support@coolgear.com

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1. Introduction

The USBG-4SU2MLA is an Industrial-grade metal 4-Port USB 2.0 Powered Hub that allows you to secure your devices by the connection of a screw lock port. Never come unplugged during synchronization again! The USB 2.0 controller works backward compatible either when any one of downstream port is connected to an USB 1.1 compliant device, or when the upstream port is connected to a USB 1.1 compliant host.

WEIGHT	.618 lbs
DIMENSIONS	7.03"(L) x 2.43" (W) x 0.92" (H) (17.85 x 6.16 x 2.34 cm)
UPC	736983900395
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	4 USB Type-A Ports
UPSTREAM PORTS	1 USB Type-B Port

1.1 Features

- Compliant with USB Specification Revision 2.0
- Provides 4 USB downstream ports which managing up to 480Mbps
- High-speed or Full-speed Packet Protocol Sequencer for Endpoint 0/1
- Provides 4 Downstream Facing Ports
- Supports Downstream Port Status with LED
- 1 Upstream and 4 Downstream Screw Lock USB Ports, Ideal for Critical Applications
- Supports 480Mbps, 12Mbps, and 1.5Mbps Speed
- Supports 4 Concurrent Non-periodic Transactions
- Supports Self-powered and Bus-powered Mode

USB 2.0 Upstream Port	USB 2.0 Downstream Port	+5V DC Jack Power
Type-B connector from upstream USB2.0 port. It is connected from host or another USB 2.0 hub. The connector is compatible with either non-Screw-Lock or Screw-Lock type cables.	There are 4 Type-A downstream USB 2.0 connectors. They should be connected to the USB devices with non-Screw-Lock or Screw-Lock (optional) cables.	A DC5V AC adapter (with optional Screw Lock Connector) is supplied with this product. The AC adapter's output has to be connected to here.

1.2   Front and Back Connections
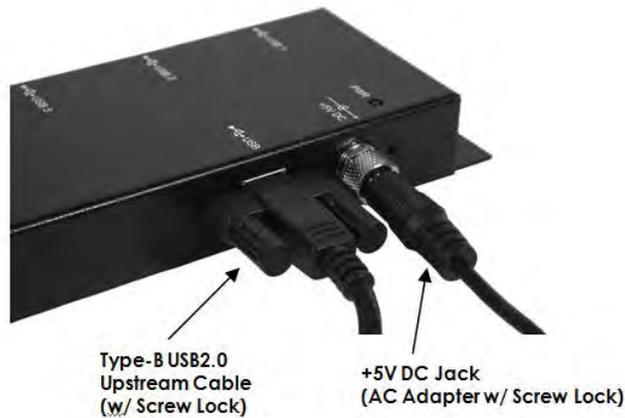
Back Side Connection

Figure 1

Front Side Connection

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. **Attach the AC Power Adapter**.
3. **Connecting USB Host cable:** The host cable is a standard A-to-B USB2.0 cable (or optional Screw-Lock type cables). 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. You can use either non-Screw-Lock or Screw-Lock type (optional) cables.
5. Mount your hub on the wall if required.

1.4 Checking the Hub Installation

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

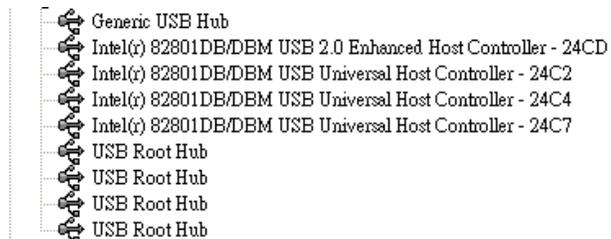|	
1. Click **Start** 2. Click **Control Panel** 3. Click **System** 4. Click **Device Manager** button 5. Double Click **Universal Serial Bus Controller** 6. Double click **Generic USB Hub**, the message will show that this device is working properly	 Figure 3

1.5   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

Note	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.

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/metal-4-port-usb-2-0-powered-hub-industrial-use-w-screw-lock