



Industrial 16-Port Rack-Mountable USB 2.0 Hub

Product Manual

Coolgear, Inc.

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Model Number: CG-1600i-RM



Revision History

Revision	Date	Author	Comments
1.0	06/7/2015	Coolgear	Original format
1.1	10/6/2017	Coolgear	New Manual Format

About this document

This product manual outlines installation and features of the CG-1600i-RM Industrial 16-Port Rack-Mountable USB 2.0 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; Data Centers, Machine Equipment, Kiosk, Office Devices, and others.

Product Support

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1. Introduction

CoolGear CG-1600i-RM is a rugged, industrial-grade 16-port USB 2.0 Hub. The hub is compliant with USB 2.0 specification and can expand one USB port into 16 high-efficient USB2.0 port. The 16-port hub supports USB 2.0 full speed of 12 Mbps and USB 1.1 low speed 1.5 Mbps. It is powered by an industrial-grade switching power supply, and each downstream port provides full 500mA power to the connected USB devices. The hub incorporates the USB hub chips for industrial usage.

WEIGHT	2.425 lbs
DIMENSIONS	427mm(L) x 144mm(W) x 44mm(H) 449mm X 144 mm X 44mm (W x L x H) with ears
UPC	729440691530
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	16 USB Type-A Ports
UPSTREAM PORTS	1 USB Type-B Port

1.1 Features

<ul style="list-style-type: none"> • Compliant with USB Specification Revision 2.0 • Suitable for DIN-rail mounting • Common mode filtering on all data lines • Over-current detection and protection circuit design • Each downstream USB port supplies 5V 500mA power for external high-power USB devices • Individual port power management • All USB connectors with screw holes for lock the USB cable • Works with any PC or MAC computer 	<ul style="list-style-type: none"> • Provided a terminal block connector to support 5V 1A power for external devices • Supports USB 1.1 and USB 2.0 transfer speeds (1.5 ~ 480Mbps), automatic link and speed detection • Plug-and-Play; no software or drivers required • 15KV ESD immunity for serial interface protected • LED for power and USB status indication • Powered by an Industrial grade switching power supply providing power to all devices
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1.2 Connector Layout



Figure 1

The CG-1600i-RM provides a lockable terminal power connector to supply 5V, 1A power to each connected USB devices. All USB connectors with screw holes to lock the USB cable for extended security.



Figure 2



Figure 3

The CG-1600i-RM provides a lockable terminal power connector to supply 5V, 1A power to each connected USB devices.



+5VDC output GND

Figure 4

+5V 2-Pin Terminal	USB 2.0 Upstream Ports	USB 2.0 Downstream Ports
The CG-1600i-RM provides a lockable terminal power connector to supply 5V, 1A power to each connected USB devices.	Type-B connector from upstream USB 2.0 port. It is connected from host or another USB 2.0 hub.	Powered by an industrial-grade switching power supply, and each downstream port provides full 500mA power to the connected USB devices

1.3 Hub Installation

1. Connect the AC power cord to HUB-1600i-RM 16-Port USB 2.0 HUB. The red power LED will light on when HUB is receiving power. Connect the upstream port cable to an unused USB port on your computer.
2. After the software driver are loaded, you can find new “Generic USB Hub” in Universal Serial Bus controllers under “Device Manager” of the “System Properties” screen. (Go to “Device Manager” by selecting Start- Setting- Control Panel- System Properties- Hardware- Device- Device Manager) **See Checking Hub Installation.**
3. Connect your USB devices to the downstream ports on the HUB-1600i-RM USB 2.0 HUB. The green USB status LED will illuminate when your USB devices connected to one of the USB ports successfully.

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

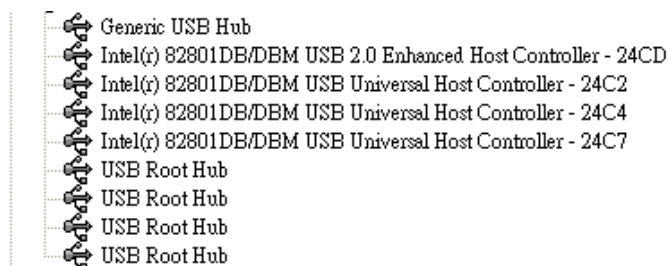


Figure 5

1.5 Environmental Specifications

Specification	Data
Operating Temperature:	-40°C to 70°C
Operating Humidity:	0 to 90% RH Non Condensing
Storage Temperature	-40°C to 85°C

2. Notes, Tips, Warnings, and Safety

Note	N/A
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Tip	N/A
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Warning	N/A
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Safety	<ul style="list-style-type: none">• 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.
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3. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/industrial-16-port-rack-mountable-usb-2-0-hub

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