



Metal 7-Port USB 2.0 Hub – Din RAIL Mounting Japan NEC Chip

Product Manual



Coolgear, Inc.

Version 1.1

September 2017

Model Number: USBG-7DU2

Revision History

Revision	Date	Author	Comments
1.0	07/14/2015	Coolgear	Original format
1.1	10/4/2017	Coolgear	New Manual Format

About this document

This product manual outlines installation and features of the USBG-7DU2 Metal 7-Port USB 2.0 Hub – DIN RAIL Mounting Japan NEC Chip.

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; ATM, Kiosk, Warehouse, Data Center, and others.

Product Support

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1. Introduction

The USBG-7DU2 7-Port USB 2.0 Hub provides unique features to work in the bus-powered mode without an external AC power adapter, it also features an external 2-pin Terminal Block Connector for self-powered mode. The High-Speed 7-port USB 2.0 hub provides an ideal solution to expand 7 USB 2.0 ports from one single USB 2.0 host port. It provides a self power source (+7~24VDC from 2-pin Terminal Blocks) to provide enough power on USB 2.0 buses.

WEIGHT	.631 lbs
DIMENSIONS	5.23"(L) x 2.42" (W) x 1.43" (H) (13.30 x 6.15 x 3.63 cm)
UPC	736983901422
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	7 USB Type-A Ports
UPSTREAM PORTS	1 USB Type-B Port
SYSTEM REQUIREMENTS	Compatible with all USB enabled operating systems.

1.1 Features

<ul style="list-style-type: none">• Compliant with USB Specification Revision 2.0• Rigid and Din Rail-Mountable Metal Case• Supports High-speed and or Full-speed Packet Protocol Sequencer for Endpoint 0/1• Provides 7 Downstream Facing Ports	<ul style="list-style-type: none">• Supports USB Screw Lock Mechanism to Increase Reliability• Supports 480Mbps, 12Mbps, and 1.5Mbps Speed• Supports Self-powered and Bus-powered Mode
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1.2 Connector Layout

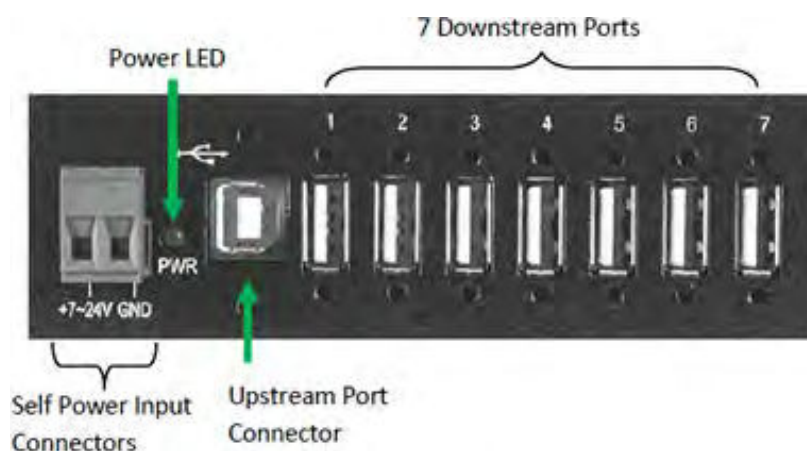


Figure 1

Upstream Port Connector	Self Power Input Connector
Type-B connector from upstream USB 2.0 port. It is connected from host or another USB 2.0 hub.	This 2-pin (one pin plus voltage and the other pin is ground) 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.

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. **Apply DC power (range from +7V to 24V) to the 2-pin Terminal Block Connector.** The hub is bus-powered by the upstream USB port; this terminal block connector is to add power to ensure enough power for the 4 downstream ports.
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 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



Figure 2

1.5 Environmental Specifications

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

1.6 Drawing



Figure 3

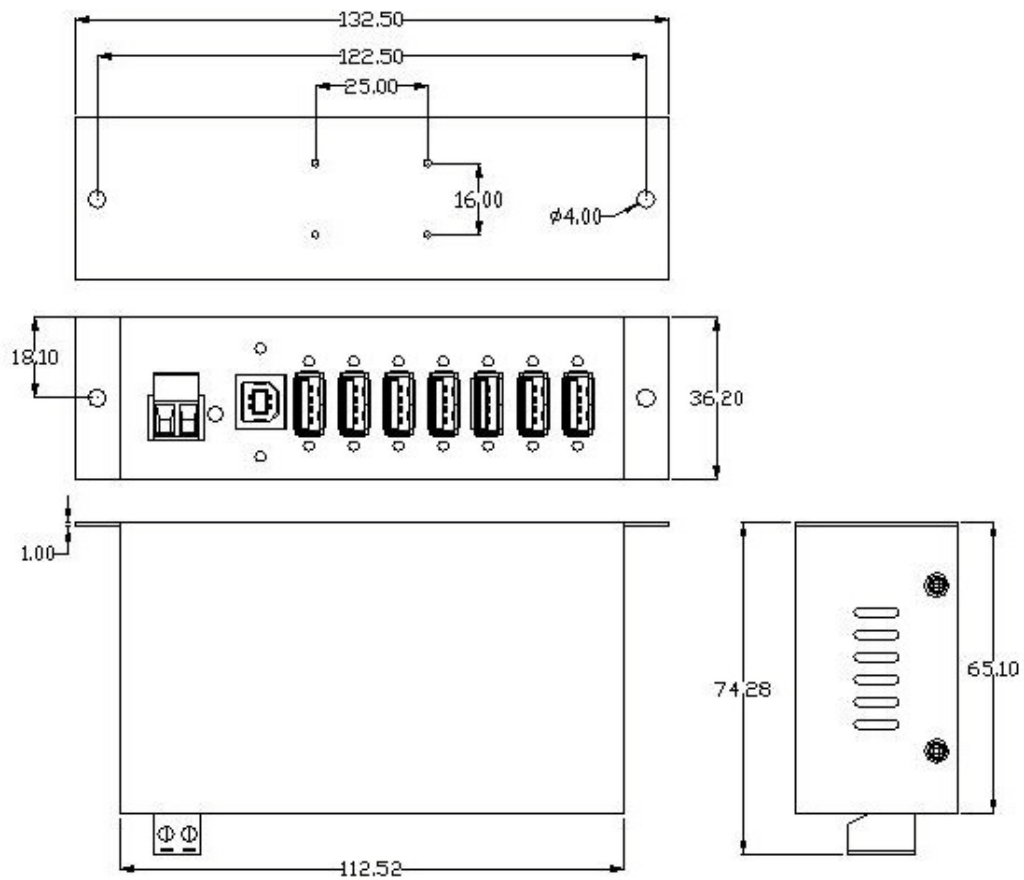


Figure 4

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.

Tip

N/A

Warning

Please make sure the polarity of the input power should be correctly match the terminal block pins, otherwise it will damage the hub.

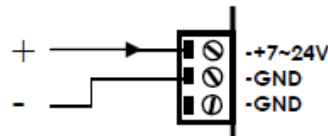


Figure 5

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-7-port-usb-2-0-hub-w-din-rail-mounting-kit-japan-nec-chip