



7-Port USB 3.0 Metal Hub with Surge Protection



Product Manual

Coolgear, Inc.

Version 1.1

September 2017

Model Number: CG-7U3DS

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 CG-7U3DS 7-Port USB 3.0 Metal Hub with Surge Protection.

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, Machine Equipment, Kiosk, Office, and others.

Product Support

support@coolgear.com

Table of Contents

1. Introduction.....	4
1.1 Features	4
1.2 Connector Layout.....	5
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 – Connector Layout.....	5
Figure 2 – Device Manager.....	6

1. Introduction

The CG-7U3DS is a 7-Port USB 3.0 Hub that complies with the Universal Serial Bus 3.0 (USB 3.0) Specifications Revision 1.0 and performs at up to 5Gbps Super-Speed. The Hub is DIN-Rail mountable and supports DC-Jack for +12V DC power input.

WEIGHT	.637 lbs
DIMENSIONS	6.83"(L) x 2.35"(W) x 0.92"(H) (17.35 x 5.96 x 2.34 cm)
UPC	736983900340
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	7 USB 3.0 Type-A Ports
UPSTREAM PORTS	1 USB 3.0 Type-B Port

1.1 Features

<ul style="list-style-type: none"> Compliant with USB 3.0 Specification Revision 1.0 Windows XP, 7, 8, 10 Supported Built-in RISC-like USB 3.0 Hub Controller Chips Metal Case, Ideal for Critical Applications One Up-stream Port (Type-B) Support Super-speed, High-speed and Full-Speed 7 Down-stream Ports (Type-A) Support Super-Speed, High-Speed, Full-speed and Low-speed Traffic Supports DC-Jack for +12V DC Power Input 	<ul style="list-style-type: none"> Supports 5Gbps (Super-speed), 480Mbps (High-Speed), 12Mbps (Full-speed) and 1.5Mbps (Low-speed) Speed Supports 7 Concurrent Non-periodic Transactions Supports Self-powered and Bus-powered Mode Supports 900mA USB Bus Power for Each Port Support USB Battery Charging: CDP and DCP mode Supports 7 Port 350-Watt Surge Protection Optional DIN RAIL Mounting Kit
---	---

1.2 Connector Layout

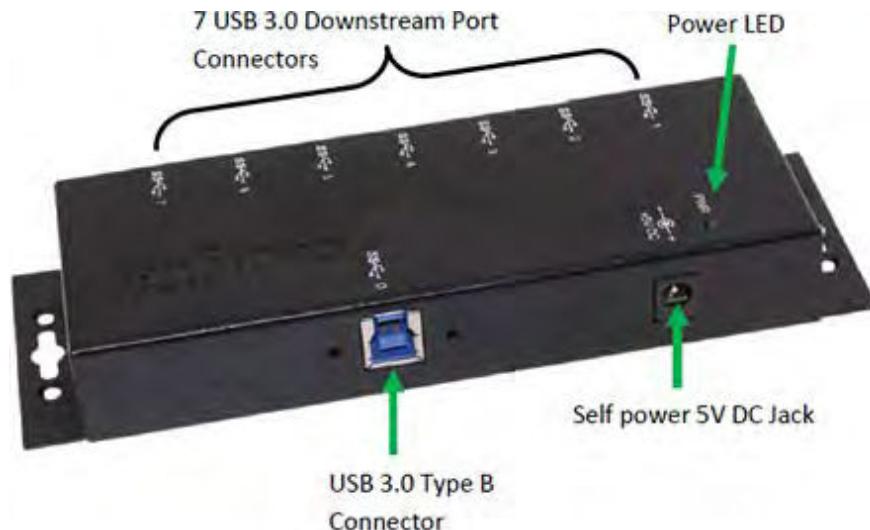


Figure 1

USB 3.0 Upstream Port	USB 3.0 Downstream Port	Self Power Input
Type-B connector from upstream USB 3.0 port. It is connected from host or another USB 3.0 hub. Supports both normal and screw-lock type USB cables on Type-B port only.	There are 7 Type-A connectors for USB 3.0, USB 2.0 or USB 1.1 devices. They support normal Type-A USB cables (non screw lock).	This 2-pin (one pin for positive voltage and the other pin is GND) terminal block connector is used to connect strong power to self-power 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. Apply +12V DC power to the DC Jack Connector.** The hub is self-powered by this connector.
- 3. Connecting USB Host cables:** The host cable could be either a standard A-to-B USB 3.0 cable or an optional A-to-B USB 3.0 screw-lock cable. Please connect the type-A end connector of the cable to your PC's host USB 3.0 port, then insert 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:

<ol style="list-style-type: none">1. Click Start2. Click Control Panel3. Click System4. Click Device Manager button5. Double Click Universal Serial Bus Controller6. Double click Generic USB Hub, the message will show that this device is working properly	 <p>The screenshot shows the Windows Device Manager window. On the left, there is a tree view of device categories. Under 'Universal Serial Bus Controller', there are several Intel(R) ICH10 Family USB Enhanced Host Controller entries, followed by a 'Renesas Electronics USB 3.0 Host Controller' entry, and finally a 'Renesas Electronics USB 3.0 Hub' entry, which is highlighted with a red box. Underneath the hub, there are two 'USB Root Hub' entries. The entire window has a yellow border.</p>
--	---

Figure 2

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	N/A
Tip	N/A
Warning	<p>Please make sure the polarity of the input power should be correctly matched with the terminal block pins to function properly.</p>
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.

3. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/7-port-usb-3-metal-hub-with-surge-protection

© 2017 Coolgear, Inc. All Rights Reserved. All products and accompanying digital documentation including images are the property and / or trademarks of Coolgear Inc. Coolgear Inc. are continuously improving upon its products. Product specifications are subject to change without notice.