Coolgear, Inc.
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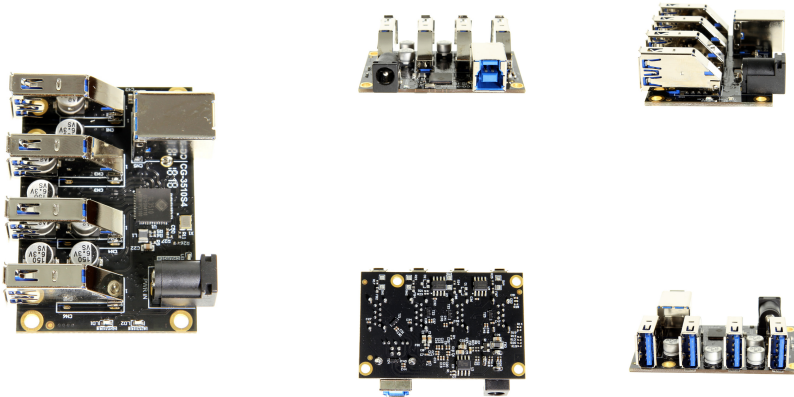**F:** +1-727-209-1302
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Technical Data Sheet Rev 06-250609

USB 3.1 4 Port Mini Hub Component Board with ESD & Surge Protection

Model Number: **CG-3510S4-Board**

Features

- Chip: GL3510
- Supporting Apple 1A/2.1A/2.4A and Samsung Galaxy devices fast-charging
- Automatic switching between self-powered and bus-powered modes
- Complies with USB-IF battery charging specification rev1.2
- Downstream devices can be charged while upstream VBUS is not present, which can be applied to charger applications

Package Contents

- Hub - Board Only

Specifications

PRODUCT TERMS

Product Terms	NOTICE: Coolgear strongly recommends purchasing one to two (1–2) units for initial evaluation. This product is intended for integration, evaluation, and testing purposes only, to assess its suitability and identify potential modifications for a specific use case. It is not designed for single-use scenarios. Before integrating this product into your project or placing a large-quantity order, please contact Coolgear to discuss your project requirements. For more details, refer to the Development Product Terms below.
Product Terms URL	https://www.coolgear.com/wp-content/uploads/2023/10/Coolgear_DEV_Product_Terms.pdf

OVERVIEW

Model No	CG-3510S4-Board	**Product Type**	USB Hub
UPC	045079160842	**Country of Origin**	China
LED indicators	Power	**Chipset**	GL3510
Electrical Protections	±15kV (air), ±8kV (contact)		

PHYSICAL

Ship Weight (lbs)	0.15 lbs	**Ship Weight (kg)**	0.07 kg
Length	2.38 inches	**Width**	1.57 inches
Height	0.7 inches		

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Specifications Cont.

CONNECTIONS

USB Specification	USB 3.2 Gen 1
Upstream Port Type	USB 3.2G1 / 3.0 Type-B Female
Maximum Data Rate	5 Gbps
Downstream Port Count	4
Downstream Port Type	4x Type A USB 3.2 G1 / 3.0
Works as Standalone Charger	Y - Can be used without Host
Can be Bus Powered	Y - Supports Bus Power
Bus Power Isolation	N

POWER

Input Voltage	5V DC
Min Input Voltage	4.5
Max Input Voltage	5.5
Idle Power Draw	28ma @ 5v DC Power (host), 10mA @ 5V DC power (standalone)
Max Power Draw	20W
Max Per Port Draw	1A (5W)
Supported Charge Protocols	BC 1.2 | CDP

ENVIRONMENTAL

Operating Temperature	0C ~ 55C
Storage Temperature	-20C ~ 75C
Operating Humidity	5% to 95% RH

OS SUPPORT

Supported Operating Systems	OS independent - No software or drivers required

WARRANTY

Warranty Period	1 Year

PRODUCT URL

Product Page	https://www.coolgear.com/product/usb31-4-port-mini-hub-component-board-with-esd-surge-protection

When you reach out to Coolgear support, you'll find yourself in the hands of a solution-oriented and knowledgeable expert ready to answer whatever question you throw at them. Go ahead, test us.

Visit Support