

12-Port USB 2.0 Type C Hi-Power Charging Hub

The 12-Port USB 2.0 Type C Hi-Power Charging Hub is a solution for quick charging or sync up to 12 USB Type C devices. This is a perfect tool to effectively save energy and cool down the unit's heat. Also is ideal for large capacity USB station in-house that enables charging and syncing at a time; automatically recharging once the devices connected have consumed their power with remaining 90% (approximately) after fully charged. Places such as school's classroom, businesses conference or meeting in organizations.

Features

- Supports Downstream Facing Port (DFP).
- Compliant with USB Spec. 2.0 / USB Type C Spec 1.2 & USB Battery Charging Spec 1.2
- Enables to provide up to 5V 3A output current on each port; Supports iOS, Android devices.
- Extends up to optimum 48 USB Type C devices by connecting cascade port with another 3 units.
- Enables Sync/Charge mode switching upon manually connecting or disconnecting host port.
- Enables Green Energy function automatically shutdown the hub when all devices are fully charged at Charge mode.
- Supports Over-Current Protection & Short Circuit Protection on each port.
- For the Over Temperature Protection, if the unit's high temperature is over the setting, it would cut off all the output current immediately. At the meantime, the whole 12 ports LED would be green blinking.
- Supports $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact) ESD protection on each port.
- Supports 40A (5/50ns) & Peak Pulse Power 250 W (8/20 us) Surge and Transient spikes protection on each port.
- The rear fans spec: SUNON Vapo DC Fan; Life Expectancy: 60,000 hours
- Enables to start/cut off the fans automatically according to the temperature's setup. If the board's temperature is higher than the setting, it would start the fans automatically. On the contrary, if the board's temperature is lower from the setting, it would turn off the fans automatically as well.

Specification

Model No.	USB-2012TCN	
Current per Port	DC5V 3A	
USB Specification	USB 2.0/1.1/1.0 compliant	
Charging Specification	USB Type C Spec 1.2 & USB Battery Charging Spec 1.2	
Connector	Upstream	USB Type-C Female
	Downstream	USB Type-C Female x 12
	Cascade	USB Type-C Female
Power Supply	DC19V 15.75A (300W)	
Green Energy	Green Energy Button	
LED	Sync mode	Orange Color x 12
	Charge mode	Charging in progress: Red Color x 12
		Disconnected or Fully charged: Green Color x 12
	Over current protection	Red blinking X12
	Short circuit protection	Red/Green Alternate blinking X12
	Over temp. protection	Green blinking X12
Environmental	Operating Temperature	0 ~ 40°C
	Storage Temperature	0 ~ 60°C
	Humidity	0-80% RH, Non-condensing
Cooling Fan	SUNON Vapo DC Fan x 2	
Housing	Metal	
Dimension (L x W x H)	268 x 102 x 40 mm	

***Note:** When the unit is working at sync mode, all the 12 ports LED illuminate orange all the time, no matter with Over current protection or Short circuit protection.

When it detects there are 4 ports or more deliver current over 3.6A each port, the unit would enable Over Current Protection immediately. All the 12 ports LED activate Red blinking and shutdown the unit power.

