16-Port Industrial USB 5Gbps Hub with Power Adapter, Metal Enclosure, Mountable, ESD Protection, Terminal Block Power, USB Charging, Dual-Host Switch - TAA

Product ID: S5G16AINDS-USB-A-HUB

The 16-Port Industrial USB 5Gbps Hub with Power Adapter features 16 downstream USB-A ports. The rugged all-metal construction is suitable for use in industrial rackmount applications. Level-4 Electrostatic Discharge (ESD) protection safeguards against 15kV Air / 8kV Contact discharges. The hub features a 2-port host switch, enabling users to switch between two host devices.

This USB hub is built to withstand harsh industrial environments. It features a rugged steel housing that protects against physical hazards such as drops and impacts. It is equipped with Level-4 ESD protection, with 15kV air and 8kV contact discharge ratings, to safeguard against damage caused by static electricity.

The 16-Port USB hub can be attached to a surface (e.g., atop/underneath a desk or wall mounted), rack mounted, or DIN-rail mounted. The 19" rackmount rails are compliant with EIA-310-D standards, ensuring compatibility with standard racks. These rails can be used to install the USB hub into 1U of rack space for applications in data centers and server rooms. Mount industrial automation and control equipment in an electrical enclosure or cabinet, using the standard DIN-rail (Top Hat/TH) mounting hardware.

This USB hub includes a 160W power adapter that connects to the 2-wire terminal block connector. When connected to the power adapter, the USB hub supports USB Battery Charging Specification 1.2 (BC 1.2) with 120W shared across all ports. Ports are grouped in 8 pairs (1&2, 3&4, 5&6, 7&8, 9&10, 11&12, 13&14, 15&16) and each pair supports a maximum of 3.0A/15W combined (1.5A/7.5W per port), or max 2.0A/10W per port when only one of both ports is used.

For optional power redundancy, the USB hub features a secondary power input where a barrel-power adapter (not included) can be connected. The barrel-power input supports a 12-to-24-volt input range, and can be ideal for mission critical applications.

The USB Hub connects to two desktop or laptop computers, and features a dual-host switch enables easy toggling between the host devices.

Developed to improve performance and security, StarTech.com Connectivity Tools is the only software suite on the market that is compatible with a wide variety of IT connectivity accessories. This product utilizes the USB Event

Monitoring utility. Use this utility to track and log connected USB devices.

For more information and to download the StarTech.com Connectivity Tools application, please visit: www.StarTech.com/Connectivity-Tools

Certifications, Reports and Compatibility

OperatingSystem
Independent

Applications

• Occupies 1U of server rack space in a 19" server rack, typically found in server rooms within data centers

• Power and/or charge up to 16 USB devices

• Connect two host devices to the USB Hub, with the option to manually select an active host device

Features

• 16-PORT INDUSTRIAL USB HUB: USB 3.2 Gen 1 hub w/metal housing for durability in harsh environments & Level 4 ESD protection (15kV air/8kV contact); 16x USB-A Ports; 5Gbps shared; 10ft long host cable; USB Event Monitoring utility (available for download)

• FLEXIBLE MOUNTING OPTIONS: EIA-310 compliant mounting brackets for 1U 19" rackmount installation; Built-in mounting ears for wall/desk installation; DIN-rail mounting hardware; Screw-lock-enabled connectors on all ports facilitate reliable connections

• INCLUDED 160W POWER ADAPTER: The rugged USB Hub is powered by the included power adapter using the built-in DC 2-wire terminal block; Overcurrent protection protects connected devices from overdrawing power; DC barrel jack for optional power redundancy

• POWER & CHARGE: When connected to the power adapter, the multiport USB expansion hub supports BC 1.2 charging; 120W is shared across all ports with 16 ports simultaneously charging at max 1.5A/7.5W per port, or up to 8 ports at max 2.0A/10W charging

• DUAL-HOST SWITCH: With a 2-port host switch, this USB hub can connect to two separate desktop or laptop computers and seamlessly switch between primary host devices, using the manual rocker switch

Hardware		
	Warranty	2 Years
	U Height	1U

USB-C Device Port(s)	No
USB-C Host Connection	No
Fast-Charge Port(s)	Yes
Ports	16
Interface	USB 3.2 Gen 1 (5Gbps)
Bus Type	USB 3.2 Gen 1 (5Gbps)
Chipset ID	Genesys Logic - GL3523

Performance

Maximum Data Transfer Rate	5 Gbps
Type and Rate	USB 3.2 Gen 1 - 5 Gbit/s
ESD Protection	+/-8kV (Contact)
	+/-15kV (Air)
MTBF	122,383.8 Hours

Connector(s)

Connector A	1 - Terminal Block (2 Wire)
	1 - Barrel Power Connector (Size M, OD:5.50, ID: 2.10)
External Ports	16 - USB 3.2 Type-A (9 pin, Gen 1, 5Gbps)
Host Connectors	2 - USB 3.2 USB Type-B (9 pin, Gen 1, 5 Gbps)

Software

OS Compatibility	OS Independent; No additional drivers or software required

Special Notes / Requirements

System and Cable Requirements	Available USB 3.2 Gen 1 Port
	USB 3.2 Gen 1 (5 Gbps) is also know as SuperSpeed USB, USB 3.1 Gen 1, and USB 3.0
	Ports are grouped in 8 pairs (1&2, 3&4, 5&6, 7&8, 9&10, 11&12, 13&14, 15&16) and each pair supports max 3A/15W combined (1.5A/7.5W per port), or max 2.0A/10W per port when only one of both ports is used.

Indicators

	LED Indicators	1 - Power (Green) - Solid Green - Indicates if the USB Hub is receiving power from either a USB Host or a DC Power Source
		2 - USB Host Selection LEDs - Solid Green - Indicates which Host Device is currently selected

Power

	Input Voltage	100 - 240 AC
	Input Current	3.5A
	Output Voltage	24 DC
	Output Current	6.6A
	Plug Type	Terminal Block (2 Wire)
		M
	Power Consumption (In Watts)	158.4W

Environmental

	Operating Temperature	32F to 140F (0C to 60C)
	Storage Temperature	-4F to 167F (-20C to 75C)
	Humidity	5% - 95% RH

Physical Characteristics

	Color	Black
	Material	Steel
	Product Length	0.5 in [1.3 cm]
	Product Width	1.2 in [3.1 cm]
	Product Height	0.2 in [4.4 mm]
	Weight of Product	2.4 lb [1.1 kg]

Packaging Information

	Package Length	14.5 in [36.8 cm]

Package Width	10.7 in [27.3 cm]
Package Height	3.9 in [9.8 cm]
Shipping (Package) Weight	4.0 lb [1.8 kg]

What's in the Box

Included in Package	1 - USB Hub
	1 - 10 ft [3 m] USB-A to USB-B Cable
	1 - Terminal Block Connector (Attached)
	2 - DIN Rail Mounting Brackets (with Mounting Screws)
	1 - 160W Power Adapter (160W-POWER-ADAPTER)
	1 - Quick-Start Guide (5G16AINDS-USB-A-HUB)
	1 - Quick-Start Guide (160W-POWER-ADAPTER)

*Product appearance and specifications are subject to change without notice.