16-Port Industrial USB 3.0 Hub 5Gbps, Metal, DIN/Surface/Rack Mountable, ESD Protection, Terminal Block Power, up to 120W Shared USB Charging, Dual-Host Hub/Switch - TAA

Product ID: 5G16AINDS-USB-A-HUB



The 16-Port Industrial USB 3.0 Hub with 5Gbps of shared bandwidth provides fast and efficient transfer speeds, making it an ideal solution for data-intensive applications. The hub features a 2-port host switch, enabling users to switch between two host devices, streamlining device management. The hub also includes ESD protection to safeguard against static electricity. Versatile mounting hardware is included for flexible installation options. Additionally, the hub supports USB BC 1.2, enabling fast charging of battery-powered USB devices. The combined features of this USB hub ensure stable and reliable functionality for use in IT and industrial applications.

This USB hub is built to withstand harsh industrial environments. It features a rugged steel housing that provides protection 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. These features make the USB hub an excellent choice for use in factories, production lines, and other industrial settings.

The 16-Port USB Hub offers three mounting options to accommodate a wide variety of applications, from IT to industrial. The 19" rackmount rails included with the 16-Port USB hub are compliant with EIA-310 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. The built-in surface mount is perfect for workstations, desks, or walls, where users need quick access to the USB hub. The standard DIN-rail (Top Hat/TH) mounting hardware is best suited for industrial automation and control equipment.

This USB Hub features two 12-24V DC power options. Power can be inputted using the 2-wire terminal block connector or the barrel connector. Both options enable support for 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 max 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.

The USB Hub can connect to two separate desktop or laptop computers, and features a dual-host switch that enables easy toggling between them. The dual-host switch provides a convenient solution for applications requiring two host devices.

This USB Hub is OS independent ensuring compatibility with all operating systems, including Windows, macOS, and

Linux.

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

5G16AINDS-USB-A-HUB is backed by a StarTech.com 2-year warranty and free lifetime 24/5 multi-lingual technical support.

Certifications, Reports and Compatibility



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

• POWER OPTIONS: The rugged USB 3.0 hub can be powered by either the DC barrel connection or DC 2-wire terminal block, using a 12 to 24V DC power source (DC adapter not incl.); Overcurrent protection protects connected devices from overdrawing power

• POWER & CHARGE: When connected to a power source, 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		
	Power Source	Not Included (DC/Terminal Block)
	Input Voltage	12 ~ 24 DC
	Plug Type	M
		Terminal Block (2 Wire)
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 [0.4 cm]
	Weight of Product	2.4 lb [1.1 kg]
Packaging Information		

Package Quantity	1
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 - Rack Mounting Brackets
	2 - DIN Rail Brackets
	4 - DIN Bracket Screws
	6 - Rack Mounting Screws
	1 - Quick-Start Guide

Product appearance and specifications are subject to change without notice.