



## StarTech.com 5G3AGBB-USB-C-HUB Interface Hub Specifications And DataSheet

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### StarTech.com 5G3AGBB-USB-C-HUB Interface Hub



## Introduction

This USB Hub adds three USB-C 3.2 Gen 1 (5Gbps) ports and one Gigabit Ethernet port to a USB-C-enabled desktop or laptop computer. The USB Hub connects to a USB-C port on a computer, using the built-in 1ft. (30cm) host cable. The USB hub is backward compatible with USB 2.0 (480Mbps) devices, ensuring support for a wide range of modern and legacy USB peripherals (e.g., thumb drives, external HDDs/SSDs, HD cameras, mice, keyboards, webcams, and audio headsets). The USB hub is compact in size, facilitating portability when travelling.

The USB hub features a Gigabit Ethernet adapter. The Ethernet controller is compatible with the IEEE 802.3u/ab standards and supports Wake-on-LAN (WoL), Jumbo Frames, and V-LAN Tagging. The network adapter enhances laptop network reliability, security, and performance by utilizing wired 10/100/1000Mbps Ethernet.

The USB hub can operate with bus power alone, but features a Micro USB power input that can be connected to a USB power adapter (not included), providing up to 4.5W (5V/0.9A) of power in addition to up to 15W of bus power from the USB host. This flexibility is ideal for applications where additional power may be required, such as connecting a high-powered USB device, like an external SSD/HDD, while using the other ports to connect lower powered devices. For added protection, the USB hub features Overcurrent Protection (OCP). OCP prevents faulty USB peripherals from drawing more power than is safely allocated.

This device supports all major operating systems, including Windows, macOS, ChromeOS, iPadOS, and Android. The Hub is automatically detected, configured, and installed upon connection to a host computer, such as Apple MacBook, Lenovo X1 Carbon, and Dell XPS. The extra-long built-in 1ft. (30 cm) USB-A host cable enables quick and convenient setup and reduces connector strain on 2-in-1 devices, such as the Surface Pro 7, iPad Pro, and laptops on riser stands.

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. The software suite includes:

MAC Address Pass-Through Utility: Improve network security.

USB Event Monitoring Utility: Track and log connected USB devices.

Wi-Fi Auto Switch Utility: Enable users to quickly access faster network speeds via wired LAN.

For more information and to download the StarTech.com Connectivity Tools application, please visit: [www.StarTech.com/connectivity-tools](http://www.StarTech.com/connectivity-tools)

This product is backed for 2 years by StarTech.com, including free lifetime 24/5 multi-lingual technical assistance.

## Certifications, Reports, and Compatibility



## Applications

- Connect three USB-A peripherals and enable Gigabit Ethernet by connecting to a USB-C-equipped laptop
- Add wired internet connectivity to the laptop
- Ideal for traveling between the home and office

## Features

- **3 PORT USB-C HUB:** Bus-powered USB 3.2 Gen 1 (5Gbps) expansion hub features a USB-C host connector and 3-port USB-A hub, Overcurrent Protection (OCP) & Wake on USB – Up to 15W of bus power dynamically shared between 3 downstream ports
- **GIGABIT ETHERNET:** Features a built-in GbE adapter to provide the reliability and security of wired Ethernet to a laptop or desktop – The GbE controller is fully compatible with IEEE 802.3u/ab standards and supports WoL, Jumbo Frames, and V-LAN Tagging
- **AUXILIARY POWER INPUT:** The USB hub features a Micro USB power input (cable sold separately) to add 4.5W (5V/0.9A) of power to the hub for applications where additional power may be required, such as connecting high power USB devices like SSD drives
- **EXTRA-LONG CABLE:** Attached 1ft/30cm cable provides longer reach for easy setup and prevents adapter from dangling on the USB-C host connector – Ideal cable length to reduce port strain on 2-in-1 convertible laptops, or host laptops on riser stands
- **CONNECTIVITY TOOLS:** Optimize the performance and security of this USB-C hub, using the included MAC Address Changer, USB Event Monitoring, Wi-Fi Auto Switch utilities (available for download) – Hub compatible with Win/macOS/Linux/iPadOS/ChromeOS/Android

## Hardware

- Warranty: 2 Years
- USB-C Device Port(s): No
- USB-C Host Connection: Yes
- Fast-Charge Port(s): No
- Ports: 3
- Interface: USB 3.2 Gen 1 (5Gbps) RJ45 (Gigabit Ethernet)
- Bus Type: USB 3.2 Gen 1 (5Gbps)
- Industry Standards: IEEE 802.3u, IEEE 802.3ab IEEE 802.3az Energy-Efficient Ethernet, IEEE 802.3x Flow

Control, 802.1q VLAN Tagging, 802.1p Layer 2 Priority Encoding USB 3.0 – Backward compatible with USB 2.0 and 1.1

- Chipset ID: VIA/VLI – VL817 ASIX – AX88179A

## Performance

- Maximum Data: 5 Gbps (USB 3.2 Gen 1)
- Transfer Rate: 2 Gbps (Ethernet; Full-Duplex)
- Type and Rate: USB 3.2 Gen 1 – 5 Gbit/s
- UASP Support: Yes
- Flow Control: Full duplex flow control
- Compatible Networks: 10/100/1000 Mbps
- Auto MDIX: Yes
- Full Duplex Support: Yes
- Jumbo Frame Support: 9K max.

## Connector(s)

- External Ports: 3 – USB Type-A (9 pin, 5 Gbps) 1 – RJ-45 1 – USB Micro-B (5 pin) (Power)
- Host Connectors: 1 – USB Type-A (9 pin, 5 Gbps)

## Software

- OS Compatibility: Windows 7, 8, 8.1, 10, 11 macOS 10.11, 10.12, 10.13, 10.14, 10.15, 11.0, 12.0, 13.0  
<i>VLAN tagging is currently not supported in macOS</i> Linux Kernel 4.11.x (and up) – LTS versions only  
ChromeOS iPadOS Android

## Special Notes / Requirements

### Note

USB 3.2 Gen 1 (5Gbps) is also known as USB 3.1 Gen 1 (5Gbps) and USB 3.0 (5Gbps). Wake-on-LAN (WoL) functionality can be disabled by the host computer, if the host computer USB controller enters power save mode. It's recommended that USB power save modes be disabled within your operating system, if the WoL functionality is required for your application.

## Indicators

- LED Indicators: 1 – Network Link LED – Green 1 – Network Activity LED – Amber

## Power

- Power Source: Bus Powered

## Environmental

- Operating Temperature: 0C to 70C (32F to 158F)

- Storage Temperature: -40C to 80C (-40F to 176F)
- Humidity: 0% to 95 % at 25

## **Physical Characteristics**

- Color: Space Gray
- Form Factor: Compact Attached Cable
- Material: Plastic
- Cable Length: 11.8 in [30 cm]
- Product Length: 16.5 in [42.0 cm]
- Product Width: 2.1 in [5.4 cm]
- Product Height: 0.6 in [1.6 cm]
- Weight of Product: 2.9 oz [82.0 g]

## **Packaging Information**

- Package Quantity: 1
- Package Length: 6.7 in [17.0 cm]
- Package Width: 5.6 in [14.2 cm]
- Package Height: 1.2 in [3.0 cm]
- Shipping (Package) Weight: 4.9 oz [138.0 g]

## **What's in the Box**

Included in Package: 1 – USB-C Hub

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

## **Frequently Asked Questions**

### **How much power does a USB-C hub need?**

Those latter two purposes don't require much, but it can matter with just 12W to play with. When plugged into a USB-C power adapter, however, the dock can reserve up to 25.5W from up to 100W of power delivered through the adapter: 1.5W for itself and up to 12W for each of the Type-A ports.

### **What are the benefits of a USB-C hub?**

A USB-C hub expands the number of ports available to connect your devices and peripherals, and options range from hubs that add USB-A ports to multiport USB-C hubs with Gigabit Ethernet, HDMI, or SD connections.

### **Does the quality of the USB-C hub matter?**

The most advanced USB-C docking stations have newer ports with technologies, like Thunderbolt 3, that support faster charging and faster data transfer.

### **Why does a USB hub need to be powered?**

Because a powered hub uses mains power, it can give every device connected to it the maximum voltage that USB allows. So, not only can it run more devices than an unpowered hub, it can do so at full power, without any drops in performance.

**What is the maximum voltage for a USB hub?**

The voltage must be within 7 to 24 or 7 to 40 Volts DC, depending on the specifications of the USB hub. The power supply must convert AC to DC (no AC output). The power rating is equal or greater to the requirements of the hub.

**How many monitors can a USB-C hub support?**

The USB-C multi-monitor hub can simultaneously display up to 4Kx2K resolution on up to 2 monitors. The bandwidth can accommodate an additional monitor up to 1080p.

**What devices are compatible with the StarTech.com 5G3AGBB-USB-C-HUB interface hub?**

The hub is compatible with devices that have a USB-C port and support USB 3.0, 2.0 or 1.1.

**How many USB ports does the hub have?**

The hub has three USB-A ports and one USB-C port.

**What is the data transfer rate of the hub?**

The hub supports USB 3.0 data transfer rates of up to 5Gbps, which is ten times faster than USB 2.0.

**Does the hub require external power?**

No, the hub does not require external power. It is bus-powered, which means it gets power from the device it is connected to.

**Is the hub compatible with Mac and Windows computers?**

Yes, the hub is compatible with both Mac and Windows computers.

**Does the hub support charge?**

The hub does not support charging, but it can be used to transfer data between devices while they are charging.

**Can the hub be used with a phone or tablet?**

The hub can be used with a phone or tablet that has a USB-C port and supports USB 3.0, 2.0 or 1.1.

**What is the length of the attached USB-C cable?**

The attached USB-C cable is 4.5 inches (11.5 cm) long.

**Can the hub be used for HDMI output?**

No, the hub does not support HDMI output.

**Is any software required to use the hub?**

No, the hub is plug-and-play and does not require any software or drivers to be installed.

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