

2-Port USB PCIe Card with 10Gbps/port - USB 3.1/3.2 Gen 2 Type-A PCI Express 3.0 x2 Host Controller Expansion Card - Add-On Adapter Card - Full/Low Profile - Windows & Linux

**Product ID:** PEXUSB312A3



This PCIe USB 3.2 Gen 2 controller card installs into an available PCI-Express x4 slot in your computer and enables you to upgrade your current system by adding two SuperSpeed USB-A (10Gbps) ports.

The controller card enables you to connect two USB-A Gen 2 (10 Gbps) devices to your desktop computer. The USB-A ports are ideal for connecting USB devices such as external hard drives and solid state drives or powering and syncing your mobile devices. The USB-A ports provides up to 4.5W (5V/0.9A) of power per USB port, and are backward compatible with USB 3.2 Gen 1 (5 Gbps), and USB 2.0 (480 Mbsp) devices.

Note: USB 3.2 Gen 2 (10 Gbps) is also know as USB 3.1 Gen 2 (10 Gbps), and USB 3.2 Gen 1 (5 Gbps) is also know as USB 3.0 and USB 3.1 (5 Gbps).

The USB 3.2 Gen 2 card features an ASMedia ASM3142 host controller that utilizes x2 lanes of the PCIe 3.0 bus, making the card capable of speeds up to 10Gbps on each port, and enabling fast access to high-performance devices like NVMe drives and SSDs. The controller card supports Multiple INs to reduce bandwidth loss when multiple devices are connected, even when connected through a USB Hub (Note: The USB hub must also support this feature). The card also supports UASP for improved performance with storage devices.

This add-on card includes both full-profile and low-profile installation brackets ensuring you can install it into either a full or low-profile PCIe 3.0 x4 slot (backward compatible w/PCIe 2.0). For wide platform support the card is compatible with Windows, Linux and macOS. For hassle-free installation the drivers install automatically on computers running Windows 8 or higher. Works w/USB 3.1/3.0/2.0 devices

PEXUSB312A3 is backed by a StarTech.com lifetime warranty with free 24/5 multi-lingual North American based technical support. StarTech.com has been the IT professionals' choice for over 30 years.

## Certifications, Reports and Compatibility

## Applications

- Connect high-performance devices like NVMe drives and SSDs

## Features

- **HIGH PERFORMANCE:** 2-Port USB PCIe Card with ASMedia ASM3142 host controller (PCIe 3.0 x4) has two SuperSpeed 10Gbps USB-A ports (USB 3.1 Gen 2 / USB 3.2 Gen 2x1); Speeds up to 10Gbps/port; Upgraded version of our popular USB card PEXUSB312A2
- **MAXIMIZED USB PERFORMANCE:** Add-on card supports Multiple InS for max bandwidth when using mixed-speed devices; Supports UASP & optimized for SSDs/HDDs, NVMe, thumb drives; Supports USB 3.0/2.0 devices
- **POWER:** USB PCI Express 3.0 expansion card w/ SATA power header supplies supplemental power to the USB ports (when motherboard power is insufficient) providing up to 4.5W (5V @ 0.9A) per USB-A port
- **COMPATIBILITY:** USB PCIe adapter card installs in full or low-profile PCIe 3.0 x4 slot and up; Bracket included; Backward compatible w/ PCIe 2.0; Supports Win/Linux/macOS w/auto drivers on Win 8 & up
- **STARTECH.COM ADVANTAGE:** IT professionals' choice for over 30 years; This USB-A PCI-e card for desktop is backed for life by StarTech.com, incl. free 24/5 North America based multi-lingual tech support

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### Hardware

Warranty	Lifetime
Ports	2
Interface	PCI Express x4
Bus Type	USB 3.2 Gen 2 10Gbps
Card Type	Standard Profile (LP bracket incl.)
Port Style	Integrated on Card
Industry Standards	USB 3.2 Specification PCI Express Base Specification Rev. 3.0 Intel xHCI Specification Rev. 1.1 UASP (USB Attached SCSI Protocol) Rev. 1.0
Chipset ID	ASMedia - ASM3142

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### Performance

Total USB Power Output	4.5W (5V @ 0.9A) nominal, per port - Current draw above 2.0A (10W) will initiate Over-Current Protection
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Maximum Data Transfer Rate	10Gbps
Type and Rate	USB 3.2 Gen 2 - 10 Gbit/s
UASP Support	Yes

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#### Connector(s)

Connector Type(s)	PCI Express x4
Internal Ports	SATA Power (15 pin)
External Ports	USB 3.1 USB Type-A (9 pin, Gen 2, 10 Gbps)

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#### Software

OS Compatibility	Windows 7, 8, 8.1, 10 Windows Server 2012 R2, 2016, 2019 macOS 10.13 to 10.15, 11.0 Linux 3.5 or later <i>LTS version only</i>
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#### Special Notes / Requirements

System and Cable Requirements	PCI Express enabled computer or server with a PCI Express x4 slot or higher (x8, x16)  Optional SATA power connector  The maximum throughput of this card is limited by the bus interface. PCI Express Gen 1.0 max throughput is 2.5Gbps. PCI Express Gen 2.0 and Gen 3.0 max throughput is 10Gbps
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#### Environmental

Operating Temperature	5C to 50C (41F to 122F)
Storage Temperature	-20C to 60C (-4F to 140F)
Humidity	20%~80% RH

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#### Physical Characteristics

Color	Black
Product Length	4.3 in [11.0 cm]
Product Width	4.7 in [12.0 cm]
Product Height	0.7 in [19.0 mm]



Weight of Product	2.8 oz [78.0 g]
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**Packaging Information**

Package Length	5.7 in [14.5 cm]
Package Width	8.5 in [21.5 cm]
Package Height	1.4 in [35.0 mm]
Shipping (Package) Weight	5.0 oz [142.0 g]

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**What's in the Box**

Included in Package	USB 3.1 Card
	Full-Profile Bracket (Pre-Installed)
	Low-Profile Bracket
	Quick Start Guide

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

