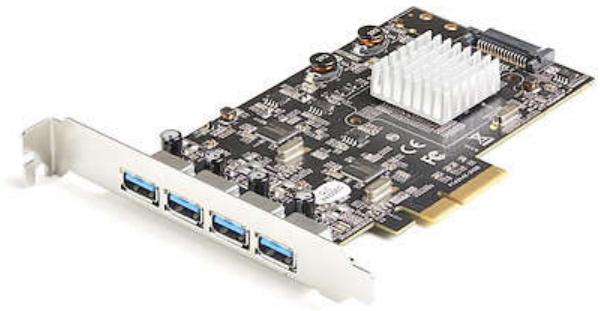
4-Port USB PCIe Card - 10Gbps USB 3.1/3.2 Gen 2 Type-A PCI Express Expansion Card with 2 Controllers - 4x USB-A - USB PCIe Add-On Adapter Card - Windows/Mac/Linux

Product ID: PEXUSB314A2V2



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 four SuperSpeed USB-A (10Gbps) ports. The card features dual ASM3142 controllers with up to 20 Gbps of total bandwidth shared across all 4 ports.

The controller card enables you to connect four 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 dual ASMedia ASM3142 host controllers that utilizes x4 lanes of the PCIe 2.0 bus, making the card capable of speeds up to 10 Gbps on each port, and enabling fast access to high-performance devices like NVMe drives and SSDs. The controller cards support 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 a full-profile installation bracket ensuring you can install it into full-profile PCIe 2.0 x4 slots. 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

PEXUSB314A2V2 is backed by a StarTech.com lifetime warranty and 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: USB PCIe card with 4x USB-A ports up to SuperSpeed 10Gbps per port; Dual ASM3142 controllers with up to 20Gbps total bandwidth across 4 ports; USB 3.1 Gen 2/USB 3.2 Gen 2x1; Upgraded version of our popular USB card PEXUSB314A2V

• MAXIMIZED USB PERFORMANCE: Multiple INs support for max bandwidth when using mixed-speed devices; USB Attached SCSI Protocol (UASP) for storage device, like SSDs, HDDs, NVMe drives and thumb drives

• POWER: USB PCI Express expansion card with SATA power header has the option to provide supplemental power to the USB ports (if motherboard power is insufficient) providing up to 4.5W (5V@0.9A) per USB-A port

• COMPATIBILITY: USB PCIe adapter card for desktop PC installs in standard profile PCI-e 2.0 x4 slot; Supports Windows/Linux/macOS with auto driver install on Windows 8 & up; Works w/USB 3.0/2.0 devices

• STARTECH.COM ADVANTAGE: IT professionals' choice for over 30 years; This USB-A PCIe add-on card is backed for life by StarTech.com, including free 24/5 North America based multi-lingual tech support

Hardware

Warranty	Lifetime
Ports	4
Interface	PCI Express
Bus Type	USB 3.2 Gen 2 10Gbps
Card Type	Standard Profile
Port Style	Integrated on Card
Industry Standards	USB 3.1 Specification Rev. 1.0USB Specification Rev. 2.0PCI Express Base Specification Rev. 2.0Intel xHCI Specification Rev. 1.1UASP (USB Attached SCSI Protocol) Rev. 1.0
Chipset ID	ASMedia - ASM3142
	ASMedia - ASM1812

Performance

Total USB Power Output	4.5W (5V @ 0.9A) nominal, per port - Ports trip before 2.1A (10.5W) for Over-Current Protection
Maximum Data Transfer Rate	10Gbps per port

	Type and Rate	USB 3.2 Gen 2 - 10 Gbit/s
	UASP Support	Yes
	MTBF	40,000 Hours
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)
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 LTS version only
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
	Note	This card can share up to 20Gbps of bandwidth (up to 10Gbps, per port). However, the maximum throughput of the card is limited by the maximum throughput of the PCI-Express interface it's connected through
		The available bandwidth (10Gbps) is shared equally between the two ports.
Environmental		
	Operating Temperature	5C to 50C (41F to 122F)
	Storage Temperature	-20C to 60C (-4F to 140F)
	Humidity	20% ~ 80% RH
Physical Characteristics		
	Color	Black
	Product Length	4.7 in [12.0 cm]

	Product Width	5.9 in [15.0 cm]
	Product Height	0.7 in [19.0 mm]
	Weight of Product	4.4 oz [125.0 g]
Packaging Information		
	Package Length	5.7 in [14.4 cm]
	Package Width	8.1 in [20.7 cm]
	Package Height	1.5 in [38.0 mm]
	Shipping (Package) Weight	6.4 oz [180.0 g]
What's in the Box		
	Included in Package	USB 3.1 Card
		Quick-Start Guide
		Full Profile Bracket (Installed)

Product appearance and specifications are subject to change without notice.