

2-Port 10Gbps USB-A & USB-C PCIe Card - USB 3.1 Gen 2 PCI Express Type C/A Host Controller Card Adapter - USB 3.2 Gen 2x1 PCIe Expansion Add-On Card - Windows, macOS, Linux

**Product ID:** PEXUSB311AC3



This USB 3.1 Gen 2 card lets you add one USB-C port and one USB-A port to your computer, through a PCI Express slot. It enables you to upgrade your current system by adding two USB 3.1 Gen 2 ports to your computer and giving you access to data transfer speeds up to 10Gbps per port. USB 3.1 Gen 2 (also known as USB 3.2 Gen 2x1) PCIe Add-On card supports Multiple INs, maintains optimal bandwidth even when mixed speed devices are connected.

Plus, by adding one USB-C and one USB-A port to your PC, you can easily connect legacy, modern, and future USB devices, regardless of the USB connector type.

By adding 10Gbps USB ports to your computer, you can harness the speed of USB 3.1 Gen 2 and rest assured you're ready for both current and future high-bandwidth USB-A and USB-C devices.

With higher data throughput support, this USB 3.1 PCIe card is a necessity for external drives, drive enclosures, and many other USB 3.1 peripherals. Plus, the expansion card with SATA power enables supplemental power to the USB ports (when motherboard power is insufficient) providing up to 5V 3A/15W via the USB-C port and 5V 0.9A/4.5W via the USB-A port. The card is ideal for use with high performance external storage solutions.

Connecting older peripherals isn't a problem. This versatile dual-port USB 3.1 card is backward compatible with legacy USB 3.0/2.0 devices that use the common USB Type-A port, so you can eliminate the added expense and aggravation of purchasing new devices. You can also connect older devices on the USB Type-C port using a variety of USB-C cables and adapters.

The USB 3.1 card is compatible with a broad range of Windows, macOS and Linux operating systems. Plus, the high-quality card includes both standard-profile and low-profile brackets, making it easy to install in full or small form-factor PCs and servers.

The card supports USB data transfer speeds of 10Gbps. But, you can experience transfer speeds up to 70% faster than conventional USB, when connected to a computer that also supports UASP. With UASP you can utilize the full potential of a SATA III SSD or HDD. UASP is supported in Windows 8, macOS (10.8 or above), and Linux.

In testing, UASP performs with a 70% faster read speed and 40% faster write speed over traditional USB 3.1 Gen 2

at peak performance.

At the same peak in testing, UASP also shows an 80% reduction in required processor resources.

The PEXUSB311AC3 is backed by a StarTech.com 2-year warranty and free lifetime technical support.

## Certifications, Reports and Compatibility

### Applications

- Upgrade an older PCIe equipped desktop from USB 3.0/2.0 to USB 3.1 Gen 2 (10Gbps)
- Expand the USB capabilities of your system by adding one USB-C port and one USB-A port, or install the card as a vital hardware component when building a new PC
- Ideal for file backups, video editing, and data recovery, using high-bandwidth USB 3.1 Gen 2 external storage solutions

### Features

- **HIGH PERFORMANCE:** USB 3.1 Gen 2 or USB 3.2 Gen 2x1 PCIe Add-On card supports Multiple INs, maintains max bandwidth even when mixed speed devices are connected; 10Gbps per port; 1x USB-A & 1x USB-C
- **POWER:** Expansion card w/ SATA power supplies supplemental power to the USB ports (when motherboard power is insufficient) providing up to 5V 3A/15W via the USB-C port & 5V 0.9A/4.5W via the USB-A port
- **MAX PERFORMANCE WITH USB DEVICES:** 2-port USB-A & USB-C PCIe card adapter supports USB Attached SCSI Protocol (UASP) optimizing USB performance w/ external storage devices like SSDs, HDDs, NVMe drives
- **COMPATIBILITY:** Installs in full or low-profile PCIe 3.0 x4 desktop/server slot (lower performance w/PCI-e 2.0); Windows/Linux/macOS auto driver install (Windows 8 & up); Works with USB 3.2/3.1/3.0/2.0
- **THE STARTECH.COM ADVANTAGE:** StarTech.com offers a 2-year warranty & free lifetime 24 hour support on this dual port USB-A & USB-C PCI Express Host Controller card w/ full & low profile bracket incl.

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#### Hardware

Warranty	2 Years
Ports	2
Interface	PCI Express x4
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Industry Standards	USB 3.2 Specifications

PCI Express Base 3.0 Specifications

Intel xHCI Specification Rev. 1.1

Chipset ID ASMedia - ASM3142

#### Performance

Maximum Data Transfer Rate	10Gbps
Type and Rate	USB 3.2 Gen 2 - 10 Gbit/s
UASP Support	Yes
MTBF	2,684,396 Hours

#### Connector(s)

Connector Type(s)	PCI Express x4
Internal Ports	SATA Power (15 pin)
External Ports	USB Type-C (24 pin) USB 3.1 (10Gbps) USB 3.1 USB Type-A (9 pin, Gen 2, 10 Gbps)

#### Software

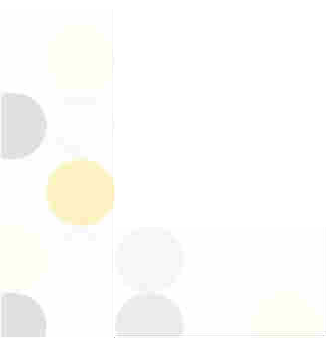
OS Compatibility	Windows 7, 8, 8.1, 10 Windows Server 2008 R2, 2012, 2016, 2019 Linux 3.5 to 4.11.x macOS 11.0, 10.15, 10.14, 10.13
Microsoft WHQL Certified	Yes

#### 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	The card's USB-C port is a standard data throughput port. It does not support DP Alt Mode or USB Power Delivery  The maximum throughput of this card is limited by the bus interface

#### Environmental

Operating Temperature	5C to 50C (41F to 122F)
Storage Temperature	-20C to 85C (-4F to 185F)



Humidity 20~80% RH

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**Physical Characteristics**

Color	Red
Material	Steel
Product Length	4.7 in [12.0 cm]
Product Width	3.2 in [81.0 mm]
Product Height	0.7 in [19.0 mm]
Weight of Product	1.7 oz [48.0 g]

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**Packaging Information**

Package Length	5.6 in [14.2 cm]
Package Width	6.7 in [17.0 cm]
Package Height	1.2 in [30.0 mm]
Shipping (Package) Weight	4.3 oz [123.0 g]

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**What's in the Box**

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

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

