

4 Port PCI Express (PCIe) SuperSpeed USB 3.0 Card Adapter w/ 2 Dedicated 5Gbps Channels - UASP - SATA / LP4 Power

StarTech ID: PEXUSB3S42V



The PEXUSB3S42V 4-Port PCI Express USB 3.0 Card lets you add four USB 3.0 ports with two dedicated 5 Gbps channels to your PCIe x4-enabled PC. This independent port architecture improves USB 3.0 performance by transferring data on two individual channels to your computer, giving you faster file transfers.

When multiple devices are connected, traditional single bus USB 3.0 cards share your maximum bandwidth between all ports. By employing a second host controller chipset, the transmission channel is shared across two ports rather than four. Dedicating up to 5 Gbps for each set of two ports reduces performance bottlenecks, and effectively doubles your total available to bandwidth to 10 Gbps.

Enhanced with UASP support (USB Attached SCSI Protocol), this USB 3.0 controller performs up to 70% faster than conventional USB 3.0 when paired with a [UASP supported enclosure](#) (Note: UASP requires a compatible operating system). Using a more efficient protocol than the traditional USB BOT (Bulk-Only Transport), UASP technology optimizes transfers by allowing multiple commands to be processed simultaneously, significantly increasing transfer speeds for less wait time on data transfers. See our UASP test results below for further details.

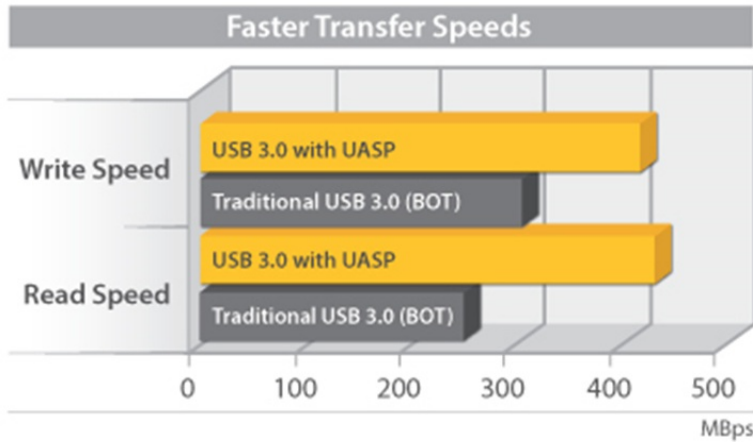
For high-power USB devices, this PCIe USB 3.0 card includes an optional SATA or LP4 power connector to connect to your system power supply and deliver up to 900mA of power per port to USB 3.0 bus-powered devices (500mA for USB 2.0). The USB 3.0 card also supports USB Battery Charging Specification 1.2 (Apple Mode only), letting you charge compatible Apple devices (iPhones and iPads) faster than a standard USB 3.0 port.

The controller card is compliant with USB 3.0 standards while offering backward compatibility with existing USB 2.0 / 1.1 devices. For added versatility, the USB 3.0 PCIe card is equipped with a standard profile bracket and includes a low-profile/half-height bracket for installation in small form-factor computers.

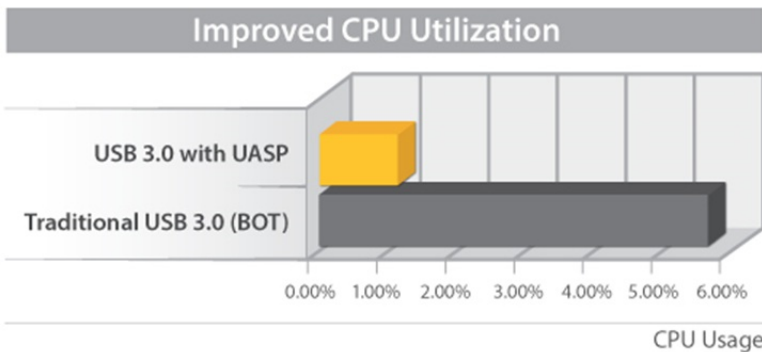
Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Improved Performance with UASP

UASP is supported in Windows® 8, 8.1, Server 2012 and Linux kernel 2.6.37 or later. In testing UASP performed with up to a 70% faster read / 40% faster write speed over traditional USB 3.0 at peak performance.



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



Test results were obtained using an Intel® Ivy Bridge system, StarTech.com add-on USB 3.0 cards, a UASP-enabled StarTech.com enclosure, and a SATA III solid state drive.

Applications

- Upgrade an older PCIe-based system to USB 3.0 connectivity and UASP support to fully utilize USB 3.0 devices
- Expand the USB capabilities of your system with four external ports for connecting additional external hard drives, CD/DVD drives, MP3 players, printers, scanners, webcams, game controllers, digital cameras, etc. to a computer system

Features

- Provides four external, USB 3.0 Ports on two independent bus channels
- Supports up to 10 Gbps total transfer bandwidth - Up to 5 Gbps per two ports
- UASP support across all four ports
- PCIe x4 interface compliant with PCI Express 2.0 specifications
- Optional LP4 or SATA power connector provides up to 900mA per USB port
- Supports USB Battery Charging Specification 1.2 (Apple Mode only)
- Fully compliant with USB 3.0 rev 1.0 and Intel xHCI rev 1.0 specifications
- Backward compatible with USB 2.0 and USB 1.0/1.1 devices
- Includes a Low Profile/half-height installation bracket
- Hot-swap feature to connect/disconnect devices without powering down the system

Technical Specifications

| | |
|-------------------------------|---|
| Warranty | 2 Years |
| Bus Type | PCI Express |
| Card Type | Standard Profile (LP bracket incl.) |
| Chipset ID | 2 x Renesas/NEC - μ PD720202 |
| Industry Standards | USB 3.0 Specification Rev. 1.0 USB Battery Charging Specification Rev. 1.2 (Apple Mode only) PCI Express Base Specification Rev. 2.0 Intel xHCI Specification Rev. 1.0 |
| Interface | USB 3.0 |
| Port Style | Integrated on Card |
| Ports | 4 |
| Connector Type(s) | 1 - PCI Express x4 Male |
| External Ports | 4 - USB 3.0 A (9 pin; SuperSpeed) Female |
| Internal Ports | 1 - LP4 (4 pin; Molex Large Drive Power) Female |
| Internal Ports | 1 - SATA Power (15 pin) Plug |
| Maximum Cable Length | 9.8 ft [3 m] |
| Maximum Data Transfer Rate | 5Gbps per 2 ports - 10Gbps Total |
| Type and Rate | USB 3.0 - 5 Gbit/s |
| UASP Support | Yes |
| OS Compatibility | Windows® 8 (32/64), 7 (32/64), Vista (32/64), XP (32/64) Windows® Server 2012, 2008 R2, 2003 (32/64) Linux Kernel 2.6.31 or later |
| System and Cable Requirements | Available PCI Express x4 or greater slot |
| Product Height | 2.2 in [55 mm] |
| Product Length | 6.6 in [167 mm] |
| Product Weight | 3.2 oz [90 g] |
| Product Width | 0.6 in [15 mm] |
| Humidity | 5~85% RH |
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Storage Temperature | -20°C to 60°C (-4°F to 140°F) |
| Shipping (Package) Weight | 7.1 oz [200 g] |
| Included in Package | 1 - 4 Port PCIe USB Card |
| Included in Package | 1 - Low Profile Bracket |
| Included in Package | 1 - Driver CD |

Included in Package 1 - Instruction Manual

Certifications, Reports and Compatibility

