# 2 Port SuperSpeed Mini PCI Express USB 3.0 Adapter Card w/ Bracket Kit and UASP Support

Product ID: MPEXUSB3S22B



The MPEXUSB3S22B 2-Port Mini PCI Express USB 3.0 Card with Bracket Kit adds two external USB 3.0 ports to small form-factor systems, for connecting a variety of different peripherals. The card also includes optional standard and low profile brackets to fit a rear expansion bay if needed.

The Mini PCIe USB 3.0 card supports the full SuperSpeed USB specification, with fast data transfer speeds (up to 5Gbps), as well as 900mA of power per port, making it a convenient addition for connecting your USB 3.0 peripheral devices.

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.

Using the Mini PCI Express (Mini Card) form factor and offering compliance with PCI Express Gen 2, this adapter card is designed for use in the latest small form factor computer systems, such as Mini-ITX or custom embedded solutions where a standard PCIe card would not fit.
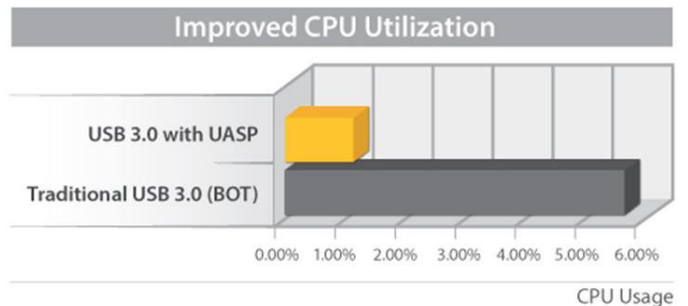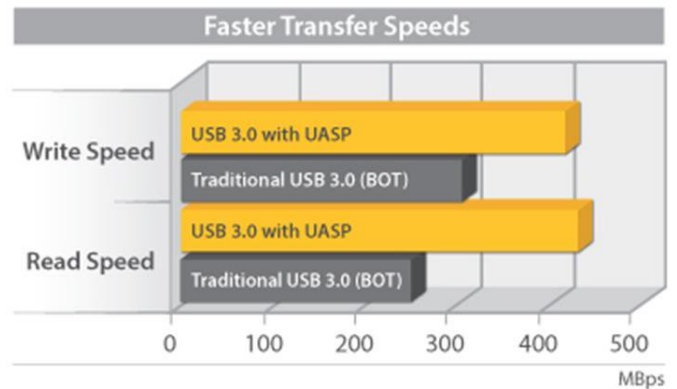
Backed by a StarTech.com 2-year warranty and free lifetime technical support.

## Improved Performance with UASP

UASP is supported in Windows® 8, Server 2012 and Linux kernel 2.6.3 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.

## Certifications, Reports and Compatibility

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## Applications

- System builders creating a small form factor HTPC with external USB 3.0 storage or other peripherals
- Add two USB 3.0 device connections to a mini-ITX or custom embedded system with no room for a standard PCI Express card
- Connecting external USB 3.0 storage devices for quick backup or archiving

## Features

- Two external USB 3.0 type A ports
- UASP support for more efficient data transfer
- Provides up to 900mA of power per port
- Fully Compliant with USB 3.0 and Intel xHCI Specification
- Backward compatible with USB 2.0 and USB 1.0/1.1 devices
- PCI Express Base Specification 2.0 Compliant (backward compatible with 1.0a/1.1)
- Supports Control / Bulk / Interrupt / Isochronous USB Transfer Modes

| | | |
|---|---|---|
| **Hardware** | Warranty | 2 Years |
| | Bus Type | Mini PCI Express |
| | Card Type | Embedded |
| | Chipset ID | Renesas/NEC - µPD720202 |
| | Industry Standards | Intel xHCI |
| | | PCI Express Base Specification 2.0 (backward compatible with 1.0a/1.1) |
| | | USB 3.0 |
| | Interface | USB 3.0 |
| | Ports | 2 |
| **Performance** | Maximum Data Transfer Rate | 5 Gbps |
| | Type and Rate | USB 3.0 - 5 Gbit/s |
| | UASP Support | Yes |
| **Connector(s)** | Connector Type(s) | 1 - Mini PCI Express x1 (52 pin) Male |
| | External Ports | 2 - USB Type-A (9 pin) USB 3.0 Female |
| | Internal Ports | 1 - IDC (20 pin, USB 3.0, Motherboard Header) Male |
| | | 1 - SP4 (4 pin, Small Drive Power) Male |
| **Software** | OS Compatibility | Windows® Vista, 7, 8, 8.1, 10<br>Windows Server® 2008 R2, 2012, 2012 R2, 2016, 2019<br>Linux 2.6.31 to 4.11.x *LTS versions only* |
| **Special Notes / Requirements** | System and Cable Requirements | Available Mini PCI Express expansion slot (full length) |
| | | Case/Chassis with available Low or Full profile expansion card slot |
| **Environmental** | Humidity | 5~95% RH |
| | Operating Temperature | 0°C to 55°C (32°F to 131°F) |
| | Storage Temperature | -20°C to 85°C (-4°F to 185°F) |
| **Physical Characteristics** | Cable Length | 23.6 in [600 mm] |
| | Product Length | 2 in [51 mm] |
| | Product Width | 1.2 in [30 mm] |
| | Weight of Product | 2.2 oz [61 g] |
| **Packaging Information** | Package Height | 1.3 in [32 mm] |

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**Data Sheet**

|  | Package Length | 6.9 in [17.6 cm] |
|---|---|---|
|  | Package Width | 5.7 in [14.4 cm] |
|  | Shipping (Package) Weight | 7.3 oz [207 g] |
| **What's in the Box** | Included in Package | 1 - Mini PCIe USB 3.0 Card |
|  |  | 1 - USB Header to 2 Port Cable |
|  |  | 1 - Low Profile Bracket |
|  |  | 1 - Standard Profile Bracket |
|  |  | 1 - LP4 Power Cable |
|  |  | 1 - Screw Kit |
|  |  | 1 - Driver CD |
|  |  | 1 - Instruction Manual |

Product appearance and specifications are subject to change without notice.