

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

StarTech 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.

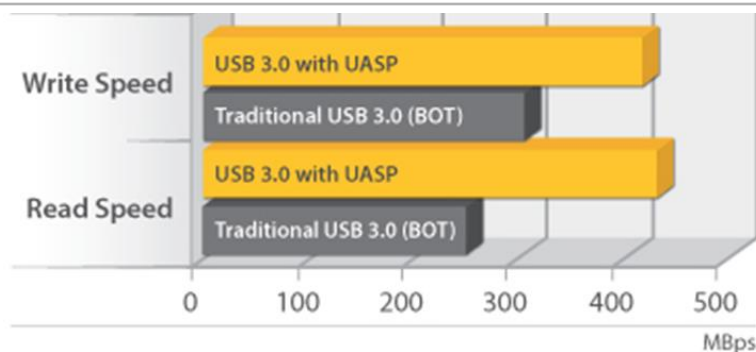
Using the Mini PCI Express (Mini Card) form factor and offering compliance with PCI Express Gen 2, this adapter card is designed for use in the latest small form factor computer systems, such as Mini-ITX or custom embedded solutions where a standard PCIe card would not fit.

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

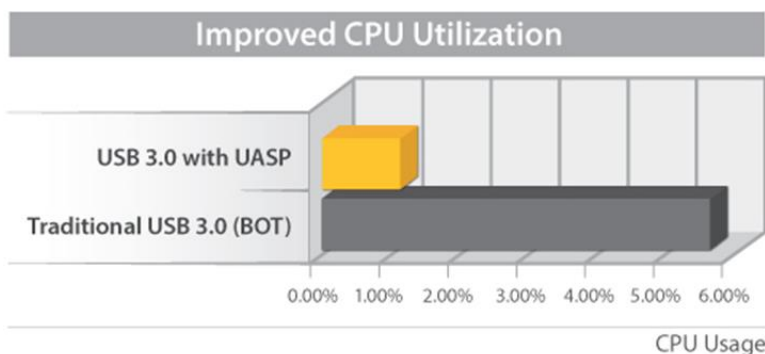
Improved Performance with UASP

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.

Faster Transfer Speeds



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

- 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

Technical Specifications

Warranty	2 Years
Ports	2
Interface	USB 3.0
Bus Type	Mini PCI Express
Card Type	Embedded
Industry Standards	Intel xHCI
Industry Standards	PCI Express Base Specification 2.0 (backward compatible with 1.0a/1.1)
Industry Standards	USB 3.0
Chipset ID	Renesas - uPD720202
Connector Type(s)	1 - Mini PCI Express x1 (52 pin) Male
Internal Ports	1 - IDC (20 pin; USB 3.0; Motherboard Header) Male
Internal Ports	1 - SP4 (4 pin; Small Drive Power) Male
External Ports	2 - USB 3.0 A (9 pin; SuperSpeed) Female
Maximum Data Transfer Rate	5 Gbps
Type and Rate	USB 3.0 - 5 Gbit/s
UASP Support	Yes
OS Compatibility	Windows® 8 / 8.1 (32/64), 7 (32/64), Vista (32/64), XP (32/64) Windows Server® 2012, 2008 R2, 2003
System and Cable Requirements	Available Mini PCI Express expansion slot (full length)
System and Cable Requirements	Case/Chassis with available Low or Full profile expansion card slot
Cable Length	23.6 in [600 mm]
Product Length	2 in [51 mm]
Product Width	1.2 in [30 mm]
Product Weight	2.2 oz [61 g]
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-20°C to 85°C (-4°F to 185°F)
Humidity	5~95% RH
Shipping (Package) Weight	7.3 oz [207 g]
Included in Package	1 - Mini PCIe USB 3.0 Card
Included in Package	1 - USB Header to 2 Port Cable
Included in Package	1 - Low Profile Bracket
Included in Package	1 - Standard Profile Bracket
Included in Package	1 - LP4 Power Cable
Included in Package	1 - Screw Kit

Included in Package	1 - Driver CD
Included in Package	1 - Instruction Manual

Certifications, Reports and Compatibility

