



USB2302

USB3.0 Dual ports
PCI Express Host Controller
(USBIF TID 35000174)



Introduction

Super-Speed USB3.0 interface is the next revolution in I/O interconnect standards that will deliver the bandwidth and features required by PCs, consumer electronics and communications devices. With 10 times faster throughput than USB 2.0 standard and backward compatible with current USB device features, USB3.0 interface will be the trendy of IT technology.

SUNIX USB2302 is a dual-port Super-Speed USB3.0 PCI Express card, and compliant with the PCI Express Generation 2 specification for host PC system. It works up to 5 Gbps for data transfer when connecting to USB 3.0 compliant peripherals, while maintaining compatibility with existing USB peripheral devices. With USB Hot-Swapping and Plug-n-Play function, you don't have to worry about running out of slots on your motherboard or complicated hardware installation process.

SUNIX USB2302 card supports USB3.0 High-Speed device and backward compatible with USB2.0 High-Speed and USB1.1 Full-Speed device. With SUNIX unique technology, it can output efficient power to USB device without additional power adapter connection. SUNIX USB2302 is an ideal choice for external storage devices, MP3 players, external writer, digital cameras, webcam, networking and video devices, and all other USB devices.

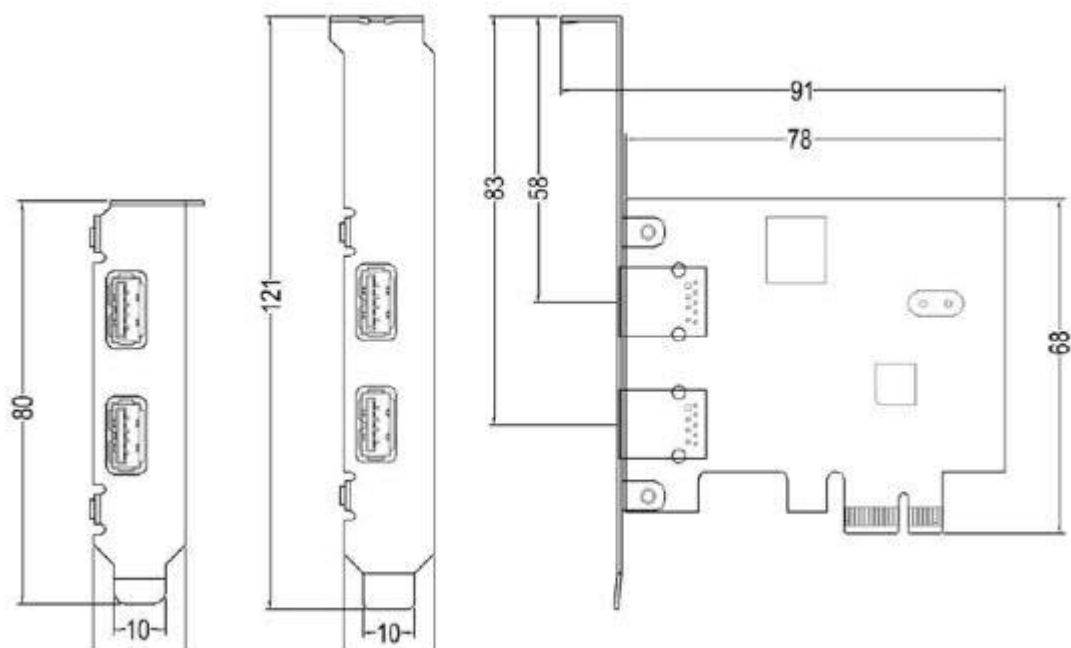
Features

- **USBIF certificated USB3.0 host card TID 350000174**
- Supports PCI Express Base Specification Revision 2.0.
- Single-lane (x1) PCI Express throughput rates up to 5 Gbps.
- Compliant with Universal Serial Bus 3.0 specification Revision 1.0.
- Compliant with xHCI (eXtensible Host Controller Interface) specifications Revision 1.0.
- Supports simultaneous operation of multiple USB 3.0, USB 2.0 and USB 1.1 devices.
- Supports USB data transfer rate of 1.5/12/480/5000 Mbps.
- Expands two external USB3.0 Super-Speed ports on the system.
- Each USB port supplies maximum +5V / 900mA power output to USB device.
- Hot-swapping feature allows connect/disconnecting devices without powering down the system.
- Driver supports for Microsoft Windows XP, Vista, 7, 2008, 8, 8.1 and 10 operation system.
- Certified by CE, FCC, RoHS, and Microsoft WQHL approval.

Specifications

Interface	Single-Lane (x1) PCI Express Gen2
Mode	Universal Serial Bus 3.0
Controller	Renesas (NEC) μ PD720202
Port	2 external USB3.0 ports
Speed	Data Transfer rate of 1.5/12/480/5000 Mbps. Low Speed (1.5Mbps), Full Speed(12Mbps), High Speed(480Mbps), Super Speed(5Gpbs)
Power Output	+5V / 900mA (each port)
PCB Dimension	78 (W) x 68 (L) mm
Bracket	Standard 121mm/ Low profile 80mm
Certified	CE, FCC, VCCI, BSMI
O.S. Support	Windows XP/2003/Vista/7/2008/8/8.1/10 (32/64-bit), Windows 10 IoT Enterprise (x86/x64) Linux 2.6.31 or later (Linux OS already implemented USB3.0 driver)
Environment	Operation temp. 0 °C ~ 57 °C Operation humidity: 5 ~ 95% RH Storage temp.-20 °C ~ 85 °C

Mechanical Drawings (Unit = mm)



Package

- USB2302
- Low profile bracket 80mm
- CD Driver
- User's Manual

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