USB2300D

USB3.0 Dual ports PCI Express Host Controller

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 USB2300D is a dual-port Super-Speed USB3.0 PCI Express card, and it is 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 USB2300D card supports USB3.0 High-Speed device and backward compatible with USB2.0 High-Speed and USB1.1 Full-Speed device. It 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

- 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 0.96.
- 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.
- Built-in 4-pin power connector for receiving sufficient power supply from system.
- Hot-swapping feature allows you to connect/disconnect devices without powering down the system.
- Driver supports for Microsoft Windows XP, Vista, and 7 operation system.
- Certified by CE, FCC, RoHS, and Microsoft WQHL approval.

Specification

Interface: Single-Lane (x1) PCI Express Gen2

Mode: USB3.0

Controller: NEC µPD720200

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 Input: 4-pin CD-ROM Type Power Connector

Power Output: +5V / 900mA (each port)

PCB Dimension: 80 (W) x 68.5(L)mm

Bracket: Standard 121mm / Low Profile 79.2mm

O.S. support: Windows XP/2003/Vista/7/2008, (32/64-bit)
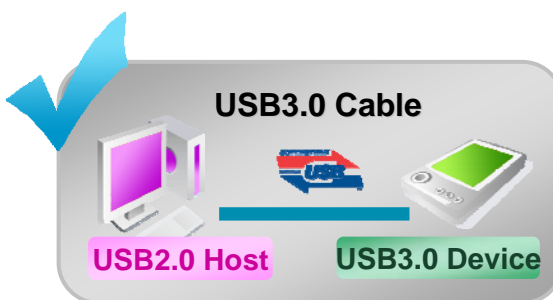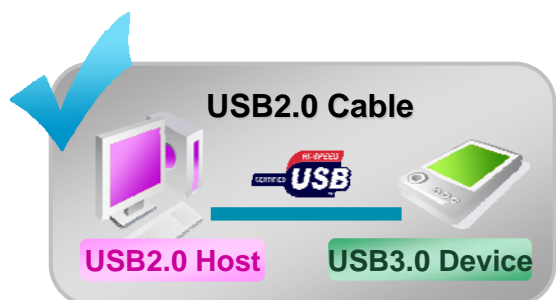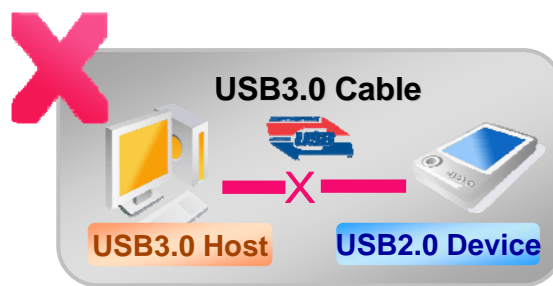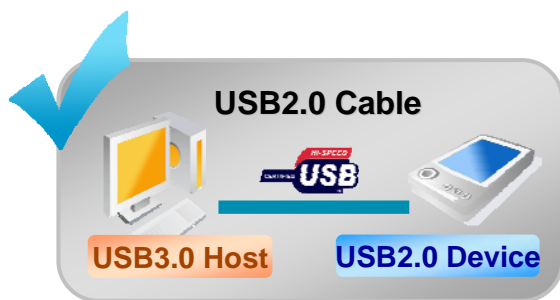
Environment : Operation temp. 0 ℃ ～ 57 ℃

Operation humidity: 5 ～ 95% RH

Storage temp.-20 ℃ ～ 85 ℃

Package

- USB2300D
- CD Drive
- User's Manual

Backward Compatible Application

The Performance of USB3.0

PCI-E Ver1.0 / 1.1 — **2.5Gbps** — SUNIX USB2300D — **USB3.0 5.0Gbps** — **>150MB/sec** — USB Device

PCI-E Ver2.0 — **5.0Gbps** — SUNIX USB2300D — **USB3.0 5.0Gbps** — **>300MB/sec** — USB Device
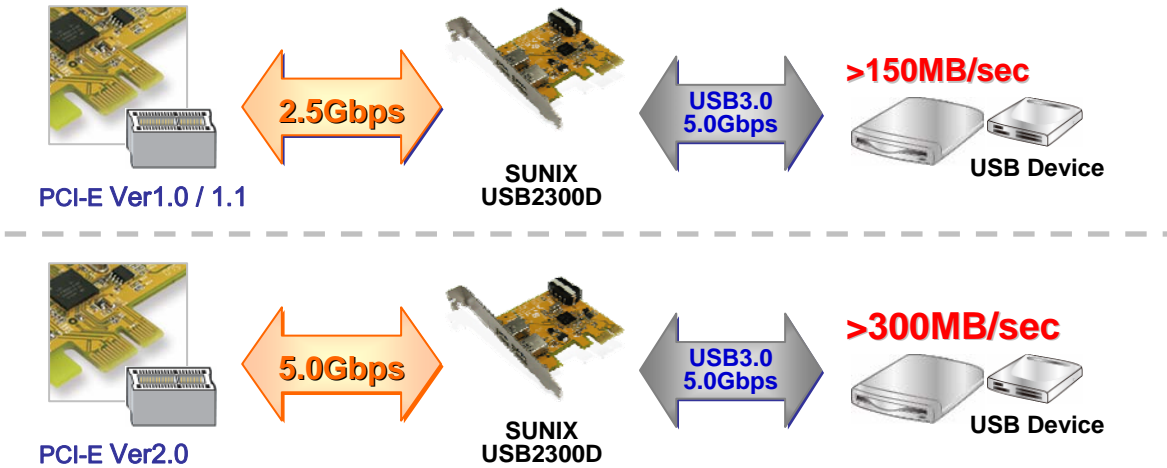
USB Comparison

	Logo	Speed	Transmission	Power Supply	Cable Length
USB1.1	CERTIFIED USB	Low-speed(1.5Mbps) Full-speed(12Mbps)	Half-duplex two-wire differential signaling Unidirectional data flow with negotiated directional bus transitions	5V / 500mA	5M
USB2.0	HI-SPEED CERTIFIED USB	Low-speed(1.5Mbps) Full-speed(12Mbps) High-speed(480Mbps)		5V / 500mA	5M
USB3.0	SUPERSPEED USB	Low-speed(1.5Mbps) Full-speed(12Mbps) High-speed(480Mbps) Super-speed(5.0Gbps)	Dual-simplex, four wire differential signaling separate from USB2.0 signaling Simultaneous bi-directional data flows	5V / 900mA	5M

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