

USB 3.0 Host Card

U3X4-PCIE4XE111

Quad Channel USB 3.0 to PCI Express x4 Host Card

Highlight

- Host Bus: PCIe x4 Gen 2 (5.0 GT/s)
 - Compliant with PCI Express Base Specification Revision 2.0
- Four independent USB 3.0 Host Controllers (Fresco FL1100, USB IF TID 380000026)
 - Compliant with USB 3.0 Specification 1.0
 - Compliant with Extensible Host Controller Interface (xHCI) Specification revision 1.0
- WHQL certified driver support for Windows 8, Windows 7, Windows Vista and Windows XP
- Linux xHCI support under Linux kernel version 2.6.31 and after
- Supports UASP (USB Attached SCSI Protocol)
- Four USB 3.0 Cable Ports (A-type Receptacle, USB IF TID 360000145)
 - Provides USB 3.0 cable port lock mechanism (IOI standard: One screwlock)



The U3X4-PCIE4XE111 is a Quad channel USB 3.0 to PCI Express x4 Gen 2 Host Card.

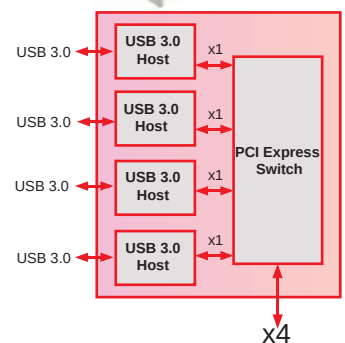
U3X4-PCIE4XE111 is designed with Two key components.

- 8-Lane, 8-Port PCI Express Switch.
- PCI Express to USB 3.0 Single Chip Host Controller (FRESCO FL1100; USB IF TID 380000026).

Utilizing the standard PCI Express Switch, the 8-Lane/8-Port PCI Express Switch provides the most efficient fan-out solution for integrating four PCI Express to USB 3.0 Single Chip Host controllers into a small board design.

Each USB 3.0 to PCI Express Single Chip Host controller takes advantages of 5 Gbps burst rate of 4-lane PCI Express bus in both directions and is fully compliant with PCI Express Base specification r2.0.

This solution provides full PCI Express and USB 3.0 functionality and performance.



Specification

Primary PCI Express

Standards compliant

- PCI Express Base Specification r2.0 (Backwards compatible with PCIe r1.0a/1.1)
- PCI Power Management Spec r1.2
- Microsoft Vista®-compliant
- Supports Access Control Services
- Dynamic Link-width control
- Dynamic SerDes speed control

High Performance

- Non-Blocking Internal architecture
- Full line rate on all Ports
- Cut-Thru latency: 130ns
- 2KB max payload size

PCI Express Power Management

- Link power management states: L0, L0s, L1, L2/L3 Ready, and L3
- Device states: D0 and D3hot

Quality of Service (QoS) support

- Two Virtual Channels (VC) per Port
- Eight Traffic Classes per Port
- Weighted Round-Robin Port & VC Arbitration

Secondary PCI Express

- Four Single (x1) PCI Express Lane
- Supports PCI Express Specification Revision 2.1 at 5GT/s
- Supports PCI Bus Power Management Interface Specification revision 1.2
- Support for Latency Tolerance Reporting (PCIe)

Advanced Power Saving

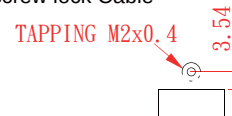
- Support all USB 3.0 Power States: U0, U1, U2 and U3
- Support USB 2.0 Link Power management (LPM) USB-IF LPM PDK Standard
- PCIe Active State Power Management (ASPM) L0s and L1

USB Features

- Compliant with USB 3.0 Specification Revision 1.0
- Compliant with Extensible Host Controller Interface (xHCI) Specification Revision 1.0
- Each USB port supporting SS/HS/FS/LS data rates (5Gbps/480Mbps/12Mbps/1.5Mbps)

USB3 cable lock mechanism

Provides the threaded holes for the jack-screws of USB 3.0 A Plug w/Jackscrew lock Cable



USB Bus Power Input

Either Big IDE 4-pin DC Power Connector or/and SATA 15pin Power Connector

Operating Systems

- Windows XP, Windows Vista, Windows 7, Windows 8
Linux xHCI support under Linux kernel version 2.6.31 and after
USB 3.0 Host Drivers
x86 (32-bit) and x64 (64-bit)
- Windows XP
 - Windows Vista
 - Windows 7
 - Windows 8 and 8.1

Operating Temperature and Humidity

- Operating Temperature: 5°C to 60°C (41°F to 140°F)
- Storage Temperature : 0°C to 70°C (32°F to 158°F)
- Operating Humidity: 10% to 80% (Non-Condensing)
- Storage Humidity: 10% to 80% (Non-Condensing)