

PCIE-2230

Quad Port Fiber 10GbE Ethernet PCI Express Server Adapter with Intel® XL710-BM1



Features

- 1 x Intel® Ethernet Controller XL710-BM1
- 4 x 10GbE SFP+ ports
- Supports 10GBASE-SR and 10GBASE-LR transceivers
- PCIe gen. 3 x8 host interface
- Supports SR-IOV based virtualization
- Advanced virtualization and network overlay support
- Low profile and half length form factors



Introduction

Advantech's PCIE-2230 is a low-profile quad port 10GbE Ethernet PCI Express server adapter based on the Intel® Ethernet Controller XL710-BM1. By supporting a PCI Express Gen3 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on all four 10GbE ports. Quad SFP+ ports can be configured to support a variety of optical transceivers such as 10GBASE-SR and 10GBASE-LR optical modules as well as direct attach cables. Improved support for virtualization, including VMDq, SR-IOV and VEB make the PCIE-2230 a perfect fit for virtualized environments and applications with network overlays. Packet filtering, load balancing and protocol offload capabilities further enhance efficiency by saving valuable processing time on the host.

PCIE-2230 is an ideal network interface solution for multi-tenant environments and Network Function Virtualization as well as networking applications such as WAN optimization and cyber security.

Specifications

Controller	Physical Functions	Intel® XL710-BM1 MAC+PHY 4
	Virtual Functions	128
	Virtualization Support	VMDq, SRIOV, VEB
Host Interface	PCI Express	8 lanes gen. 3
Network Interfaces	Ports	4 SFP+ cages
	Media	10GBASE-SR, -LR, -ER, -T transceivers, Direct Attach cables
	LEDs (per port)	Link/Act (Green/ Green Blink) Speed: 10GbE (Green), GbE (Amber)
Software support	Operating Systems	Red Hat, CentOS Linux (Windows Server and FreeBSD under investigation)
	Virtualization	KVM (VMWare under investigation)
	others	Intel® DPDK
Power consumption	+12V	9W
Environment	Operating Humidity	0 ~ 90%, non-condensing
	Operating Temperature	0 ~ 45° C (32 ~ 113° F)
	Storage	-40 ~ 65° C (-40 ~ 149° F)
Mechanical Specifications	Board Dimensions	167 x 68.9mm (PCIe low profile)
	Bracket	Full height and low profile options available
Compliance	EMC Certifications	FCC, CE Class A

Ordering Information

Part Number	Description
PCIE-2230NP-00A1E	4-port Fiber 10GbE Ethernet PCI Express Server Adapter with Intel® XL710-BM1

Please contact your Advantech representative of a list of supported and validated transceiver modules.