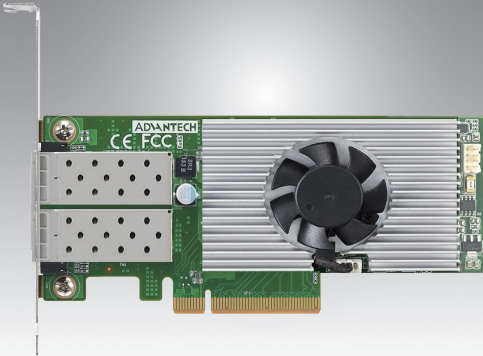# PCIE-2301E

Dual Port Fiber 40G Ethernet PCI Express Server Adapter with Intel® FTXL710-BM2

Preliminary

Features

- 1 x Intel FTXL710-BM2 40G Ethernet controller
- 2 x 40GE QSFP+ ports
- Supports 40G base-SR and 40G base-LR (TBD) transceivers
- PCIex8 Gen3 host interface
- Supports SR-IOV, VEB based virtualization
- Advanced virtualization and network overlay support
- Low profile and full height form factors

RoHS COMPLIANT 2002/95/EC CE FCC

Introduction

Advantech's PCIE-2301E is a low-profile dual port 40G Ethernet PCI Express server adapter based on Intel's FTXL710-BM2 controller. By supporting a PCI-Express Gen3 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on all two 40GE ports. Dual QSFP+ ports can be configured to support a variety of optical transceivers such as 40GE Base-SR or 40GE Base-LR (TBD) optical modules as well as direct attach cables. Improved support for virtualization – including, but not limited to – VMDq, SR-IOV and VEB make the PCIE-2301E 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-2301E is an ideal network interface solution for multi-tenant environments, Network Function Virtualization but also networking applications such as WAN optimization, network and cyber security.

Specifications

Controller		Intel FTXL710-BM2 MAC+PHY
	Physical Functions	2
	Virtual Functions	128
	Virtualization Support	VMDq, SRIOV, VEB
Host Interface	PCI Express	8 lanes, Gen 3
Network Interfaces	Ports	2 QSFP cages
	Media	40G-SR, LR (TBD), Base-T transceivers, Direct Attach cables
	LEDs (per port)	Link/Act LED (Green/Green Blink) Speed: 40G (Green)
Software support	Operating Systems	RedHat, CentOS Linux (Windows Server and FreeBSD under)
	Virtualization	KVM (VMWare under investigation)
	Other	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 Dimension	167 x 68.9 mm (PCIe low profile)
	Bracket	Full height and half height options available
Compliance	EMC Certifications	FCC CE Class A

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