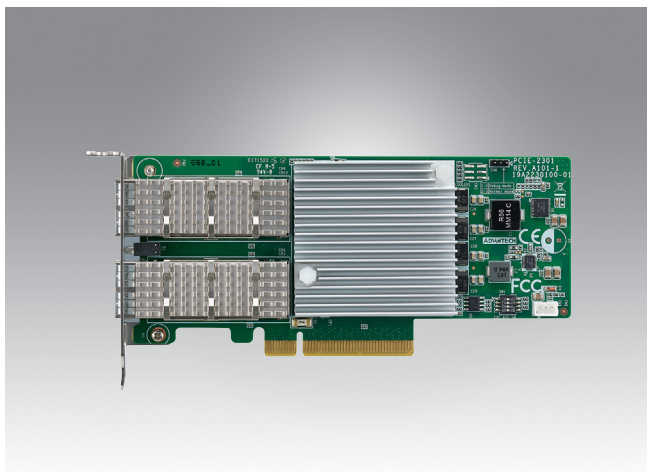


PCIE-2320

Dual Port Fiber 40GbE Ethernet PCI Express Server Adapter with Intel® XL710-BM2



Features

- 1 x Intel® Ethernet Controller XL710-BM2
- 2 x 40GbE QSFP+ ports
- Supports 40GBASE-SR and 40GBASE-LR (TBD) 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-2320 is a low-profile dual port 40GbE Ethernet PCI Express server adapter based on the Intel® Ethernet Controller XL710-BM2. By supporting a PCI Express gen. 3 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on both 40GbE ports. Dual QSFP+ ports can be configured to support a variety of optical transceivers such as 40GBASE-SR and 40GBASE-LR (TBD) optical modules as well as direct attach cables. Improved support for virtualization, including VMDq, SR-IOV and VEB make the PCIE-2320 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-2320 is an ideal network interface solution for multi-tenant environments, Network Function Virtualization as well as networking applications such as WAN optimization and cyber security.

Specifications

Controller	Physical Functions	Intel® XL710-BM2 MAC+PHY 2
	Virtual Functions	128
	Virtualization Support	VMDq, SRIOV, VEB
Host Interface	PCI Express	8 lanes gen. 3
Network Interfaces	Ports	2 QSFP+ cages
	Media	40GBASE-SR, -LR(TBD), -T transceivers, Direct Attach cables
	LEDs (per port)	Link/Act LED (Green/Green Blink)
Software support	Operating Systems	Red Hat, CentOS Linux (Windows Server and FreeBSD under investigation)
	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 low profile options available
Compliance	EMC Certifications	FCC CE Class A

Ordering Information

Part Number	Description
PCIE-2320NP-00A1E	2-port 40GbE fiber (QSFP+) Ethernet PCI Express Server Adapter with Intel® XL710 controller
PCIE-2320NP-01A1E	1-port 40GbE fiber (QSFP+) Ethernet PCI Express Server Adapter with Intel® XL710 controller

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