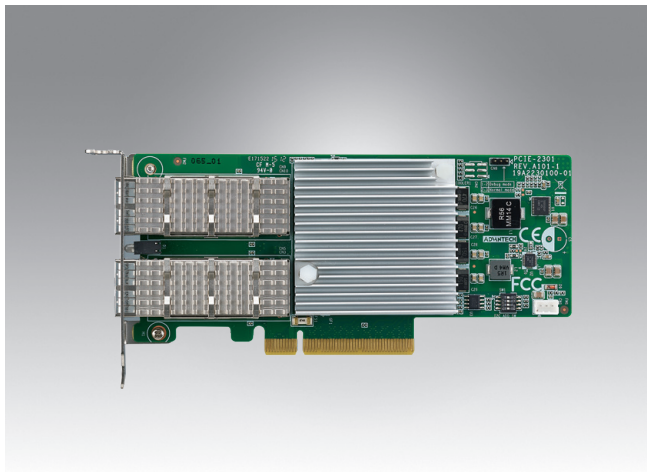# PCIE-2320

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

Features

- Intel® XL710 Controller
- 2 40GbE QSFP+ ports
- PCIe Gen.3 x8 host interface
- Low profile (half length) form factors
- Supports 40GBASE-SR and 40GBASE-LR modules
- Supports SR-IOV based virtualization

Introduction

Advantech's PCIE-2320 is a low-profile dual port 40GbE Ethernet PCI Express server adapter based on the Intel® XL710-BM2 Ethernet Controller. 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 directly attach cables. Improved support for virtualization, including VMDq, SR-IOV, and VEB, makes 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	Controller	Intel® XL710
	Physical Functions	2
	Virtual Functions	128
Ethernet	PCI Express Lanes	x8
	Speed	Gen 3
	Port Number	2
	Ports	40GbE QSFP+
Networking	LAN Bypass	Not supported
Power	Voltage	+12V
	Watts	9W
Mechanical Design	Board Dimension (D x W)	167 x 68.9 mm
	Bracket	Full height and half height options available
Environment	Operating Humidity	0 to 90% (non-condensing)
	Operating Temperature	0 ~ 55 °C (32 ~ 131 °F)
	Storage	-40 ~ 65 °C (-40 ~ 149 °F)
Certification	EMC	CE/FCC Class A
	Certification	KCC
Compatibility	OS Version	Win2012R2 / CentOS Linux 7.0 64bit / CentOS Linux release 7.3 / Red Hat Enterprise Linux Server 7.2

Ordering Information

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

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

ADVANTECH **PCI Express Adapters**

All product specifications are subject to change without notice.   Last updated: 18-Feb-2023