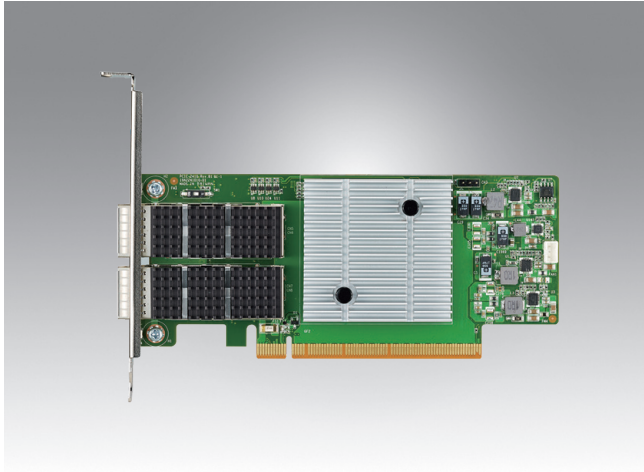# PCIE-2420

Dual Port Fiber 100GbE PCIe Adapter with Mellanox® ConnectX-5 Ethernet Controller

Features

- Mellanox® ConnectX-5 Controller
- 2 100GbE QSFP28 ports
- PCIe Gen.3 x16 host interface
- Low profile (half length) form factors
- Supports 100GBASE-SR4 and 100GBASE-LR4 modules
- Supports SR-IOV based virtualization

CE FCC RoHS COMPLIANT 2002/95/EC

Introduction

Advantech's PCIE-2420 is a low-profile dual port 100GbE PCIe adapter based on the Mellanox® ConnectX-5 Ethernet Controller that supports both PCIe gen. 3. Two QSFP28 ports can be configured to support a variety of optical transceivers, such as 100GBASE-SR4 and 100GBASE-LR4 optical modules, as well as directly attached cables and active optical cables.

Improved support for virtualization, including SR-IOV, Guaranteed QoS for VMs and Open VSwitch offload, makes the PCIE-2420 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-2420 is an ideal network interface solution for multi-tenant environments and network function virtualization, as well as networking applications such as WAN optimization and network security.

Specifications

Controller	Controller	Mellanox ConnectX-5
	Physical Functions	16
	Virtual Functions	1K
Ethernet	PCI Express Lanes	x16
	Speed	Gen 3
	Port Number	2
	Ports	100GbE QSFP28
Networking	LAN Bypass	Not supported
Power	Voltage	+12V
	Watts	17W
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 ~ 45 °C (32 ~ 113 °F)
	Storage	-40 ~ 65 °C (-40 ~ 149 °F)
Certification	EMC	CE/FCC Class B
Compatibility	OS Version	Win2012R2 / Win 2016 / CentOS Linux release 7.5

Ordering Information

Part Number	Description
PCIE-2420NP-00B1E	Dual port 100GbE fiber (QSFP28) NIC with Mellanox CX-5 controller, PCIe gen. 3 x16

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: 22-Dec-2022