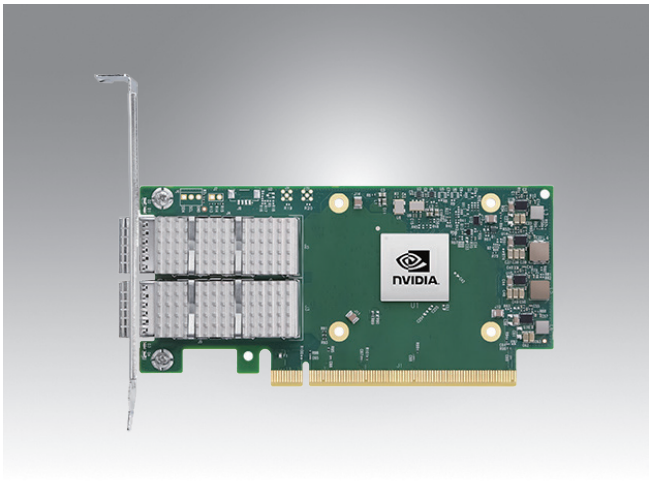
PCIE-2421

Dual Port Fiber 100GbE Ethernet PCI Express Server Adapter with NVIDIA® ConnectX®-6



Features

- NVIDIA® ConnectX®-6 Dx Controller
- 2 100GbE QSFP56 ports
- PCIe Gen. 4 x16 host interface
- Low profile (half length) form factors
- Supports 100GBASE-SR4, 100GBASE-CR4 and 100GBASE-KR4 modules
- Supports SR-IOV based virtualization

Introduction

The PCIE-2421 built on NVIDIA® is a low-profile dual port 100GbE Ethernet smart network interface cards (SmartNIC) based on the NVIDIA® ConnectX®-6 Dx Ethernet Controller that supports PCIe gen. 4. The SmartNIC supports up to two QSFP56 ports of 100GbE connectivity to deliver scalability, high performance, advanced security capabilities, and accelerated networking. With an SR-IOV or VirtIO interface, NVIDIA Accelerated Switch and Packet Processing technology (ASAP) offloads the software-defined networking (SDN) data plane to the SmartNIC, accelerating performance and offloading the CPU in virtualized or containerized cloud data centers.

PCIE-2421 is an ideal network interface solution for Enterprise data centers with Big data analytics, Cloud-native, web 2.0, hyperscale, Cybersecurity, network function virtualization (NFV), Machine learning and AI.

Specifications

Controller	Controller	NVIDIA® ConnectX®-6 Dx
	Physical Functions	8
	Virtual Functions	1K
Ethernet	PCI Express Lanes	x16
	Speed	Gen 4
	Port Number	2
	Ports	100GbE QSFP56
Networking	LAN Bypass	Not supported
Power	Voltage	+12V
	Watts	20W
Mechanical Design	Board Dimension (D x W)	142 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 ~ 70 °C (-40 ~ 158 °F)
Certification	EMC	CE / FCC / VCCI / ICES / RCM
Compatibility	OS Version	Win2022 / Win2019 / Win2016 / Win2012R2 / Win11 x64 / Win10 x64 / RedHat / CentOS

Ordering Information

Part Number	Description
PCIE-2421NP-MEA1E	Dual Port Fiber 100GbE (QSFP56) Ethernet PCI Express Server Adapter with NVIDIA® ConnectX®-6 controller, PCIe gen. 4 x16

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

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