PCIE-2521

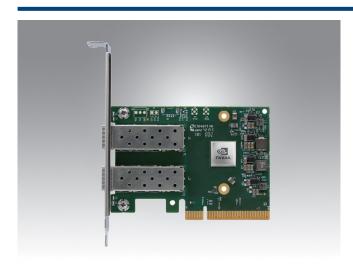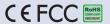## Dual Port Fiber 25GbE Ethernet PCI Express Server Adapter with NVIDIA® ConnectX®-6

Features

- NVIDIA® ConnectX®-6 Lx Controller
- 2 25GbE SFP28 ports
- PCIe Gen. 4 x8 host interface
- Low profile (half length) form factors
- Supports 25GBASE-R, 10GBASE-SR and 10GBASE-LR modules
- Supports SR-IOV based virtualization

CE FCC RoHS COMPLIANT 2002/95/EC

Introduction

The PCIE-2521 built on NVIDIA® is a low-profile dual port 25GbE Ethernet smart network interface cards (SmartNIC) based on the NVIDIA® ConnectX®-6 Lx Ethernet Controller that supports PCIe gen. 4. The SmartNIC supports up to two SFP28 ports of 25GbE 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-2521 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 Lx
	Physical Functions	8
	Virtual Functions	512
Ethernet	PCI Express Lanes	x8
	Speed	Gen 4
	Port Number	2
	Ports	25GbE SFP28
Networking	LAN Bypass	Not supported
Power	Voltage	+12V
	Watts	12W
Mechanical Design	Board Dimension (D x W)	96.3 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	Win2019 / Win2016 / Win2012R2 / Win10 x64 / RedHat / CentOS

Ordering Information

Part Number	Description
PCIE-2521NP-MEA1E	Dual Port Fiber 25GbE (SFP28) Ethernet PCI Express Server Adapter with NVIDIA® ConnectX®-6 controller, PCIe gen. 4 x8

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