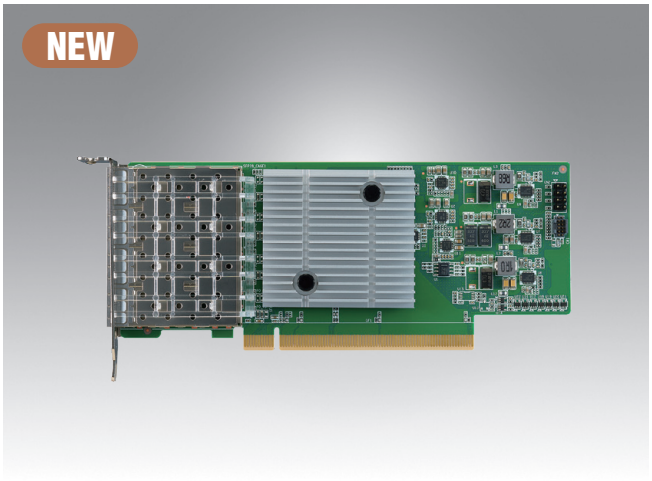
PCIE-2531

Quad Port Fiber 25GbE Ethernet PCI Express Server Adapter with Intel E810-CAM1



Features

- Intel E810 Controller
- 4 25GbE SFP28 ports
- PCIe Gen. 4 x16 host interface
- Low profile (half length) form factors
- Supports SR-IOV based virtualization

Introduction

Advantech's PCIE-2531 is a low-profile quad port 15GbE Ethernet PCI Express server adapter based on Intel E810-CAM1 Ethernet Controller. By supporting a PCI Express gen. 4 x16 host interface, this adapter provides sufficient bandwidth for line rate traffic on four 25GbE ports. Quad SFP28 ports can be configured to support a variety of optical transceivers, such as 25GBASE-SR and 25GBASE-LR optical midules, as well as directly attach cables. Improved support for virtualization, including VMDq and SR-IOV, makes the PCIE-2531 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-2531 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 E810
	Physical Functions	4
	Virtua Functions	256
Ethernet	PCI Express Lanes	X16
	Speed	Gen 4
	Port Number	4
	Ports	25GbE SFP28
Networking	LAN Bypass	Not supported
Power	Voltage	+12V
	Watts	15W
Mechanical Design	Board Dimension (D x W)	164 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), 55 °C @ 140 LFM
	Storage	-40 ~ 65 °C (-40 ~149 °F)
Certification	EMC	CE/FCC Class A
	Certification	KCC
Compatibility	OS Version	Win2016 / Win 2019 / CentOS 8.2 64bit / Red Hat Enterprise Linux Server 7.6

Ordering Information

Part Number	Description
PCIE-2531NP-00A1E	4-port Fiber 25GbE (SFP28) Ethernet PCI Express Server Adapter with Intel E810 controller

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

All product specifications are subject to change without notice.