

PCIE-2220

Dual Port Fiber 10GbE Ethernet PCI Express Server Adapter with Intel® 82599ES



Features

- 1 x Intel® 82599ES Ethernet Controller
- 2 x 10GbE SFP+ ports
- PCIe gen. 2 x8 host interface
- Supports 10GBASE-SR and 10GBASE-LR
- Supports SR-IOV based virtualization
- Low profile and half length form factors



Introduction

Advantech's PCIE-2220 is a low-profile dual port 10GbE Ethernet PCI Express server adapter based on the Intel® 82599ES Ethernet Controller. By supporting a PCI Express gen. 2 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on both 10GbE ports. Two SFP+ ports can be configured to support a variety of optical transceivers such as 10GBASE-SR and 10GBASE-LR optical modules as well as direct attach cables. Improved support for virtualization, including VMDq and SR-IOV make the PCIE-2220 a perfect fit for virtualized environments and applications with network overlays. PCIE-2220 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	Physical Functions	Intel® 82599ES MAC+PHY 2
	Virtual Functions	64
	Virtualization Support	VMDq, SRIOV
Host Interface	PCI Express	8 lanes gen. 2
Network Interfaces	Ports	2 SFP+ cages
	Media	10GBASE-SR, -LR, -ER, -T transceivers, Direct Attach cables
	LEDs (per port)	Link/Act LED (Green) Speed: 10GbE (Green), GbE (Amber)
Software support	Operating Systems	Red Hat, CentOS Linux (Windows Server and FreeBSD under investigation)
	Virtualization	KVM (VMware under investigation)
Power consumption	+12V	8.5W
Environment	Operating Humidity	0 ~ 90%, non-condensing
	Operating Temperature	0 ~ 45° C (32 ~ 113° F)
	Storage	-40 ~ 65° C (-40 ~ 149° F)
Mechanical Specifications	Board Dimension	167 x 68.9mm (PCIe low profile)
	Holder	Full height and low profile options available
Compliance	EMC Certifications	FCC CE Class A

Ordering Information

Part Number	Description
PCIE-2220NP-00A1E	2-port Fiber 10GbE Ethernet PCI Express Server Adapter with Intel® 82599ES

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