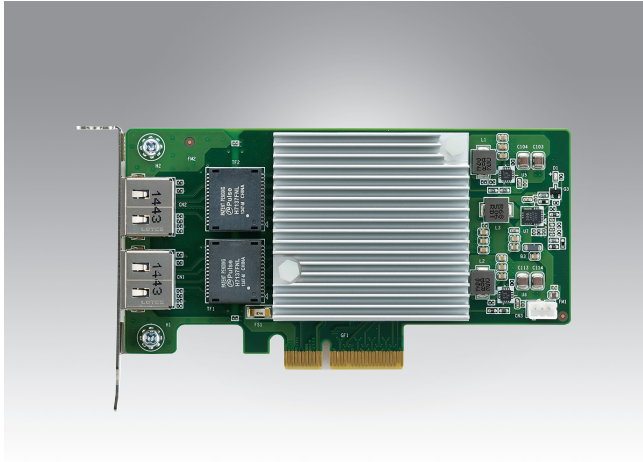# PCIE-2221NP

Dual Port Copper 10GbE Ethernet PCI Express Server Adapter with Intel® X550-AT2

Features

- 1 x Intel® X550-AT2 Ethernet Controller
- 2 x 10GbE Copper ports
- PCIe gen. 3 x4 host interface
- Supports SR-IOV based virtualization
- Advanced virtualization and network overlay support
- Low profile and half length form factors

RoHS COMPLIANT 2002/95/EC   CE   FCC

Introduction

Advantech's PCIE-2221NP is a low-profile dual port 10GbE Ethernet PCI Express server adapter based on the Intel® Ethernet Controller X550-AT2. By supporting a PCI Express gen. 3 x4 host interface, this adapter provides sufficient bandwidth for line rate traffic on all two 10GbE ports. Improved support for virtualization, including VMDq and VEB make the PCIE-2221NP a perfect fit for virtualized environments and applications with network overlays. PCIE-2221NP can be used to achieve high densities of network interfaces on servers and platforms for networking as well as industrial applications.

Specifications

Controller		Intel® X550-AT2 MAC+PHY
	Physical Functions	2
	Virtual Functions	128
	Virtualization Support	VMDq, SRIOV, VEB
Host Interface	PCI Express	4 lanes gen. 3
Network Interfaces	Ports	2 RJ-45 Copper
	Media	10GBASE-T copper Physical Layer Transceivers
	LEDs (per port)	Link/Act LED (Green/Green Blink) Speed: 10GbE (Green), GbE (Amber)
Software support	Operating Systems	Red Hat, CentOS Linux (Windows Server and FreeBSD under investigation)
	Virtualization	KVM (VMware under investigation)
	Other	Intel® DPDK
Power consumption	+12V	12.5W
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 68.9 mm (PCIe low profile)
	Bracket	Full height and low profile options available
Compliance	EMC Certifications	FCC CE Class A

Ordering Information

Part Number	Description
PCIE-2221NP-00A1E	2-port 10GBase-T Ethernet PCI Express Server Adapter with Intel® X550 controller
PCIE-2221NP-01A1E	1-port 10GBase-T Ethernet PCI Express Server Adapter with Intel® X550 controller

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