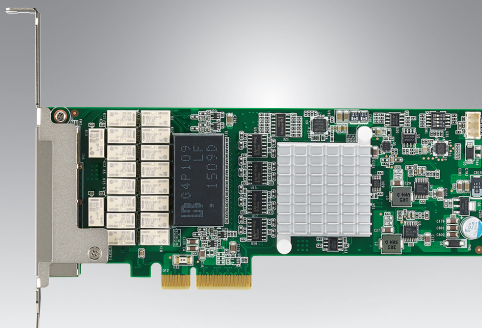# PCIE-2131

Quad Port Copper Bypass Gigabit Ethernet PCI Express Server Adapter with Intel® I350

NEW

Features

- 1 x Intel® Ethernet Controller I350-AM4
- 4 x ports GbE RJ45
- PCIe gen. 2 x4
- Supports SR-IOV based virtualization
- Low profile and full height form factors
- Advanced LAN bypass

RoHS COMPLIANT 2002/95/EC CE FCC

Introduction

Advantech's PCIE-2131 is a low-profile quad port Gigabit Ethernet PCI Express server adapter based on the Intel® Ethernet Controller I350 Series. By supporting a PCI Express gen. 2 x4 host interface, this adapter provides sufficient bandwidth for line rate traffic on all Gigabit Ethernet ports. Improved support for virtualization, including VMDq and SR-IOV make the PCIE-2131 a perfect fit for virtualized environments and applications with network overlays. PCIE-2131 can be used to achieve high densities of network interfaces on servers and platforms for networking as well as industrial applications.

Specifications

Controller		Intel® I350-AM4 MAC+PHY
	Physical Functions	2
	Virtual Functions	8
Host Interface	PCI Express	4 lanes gen. 2
Network Interfaces	Ports	4 RJ45 connectors with 10/100/1000Base-T support
	LEDs (per port)	Left: Speed -10: None Speed -100: Amber Speed -GbE: Green Right: Link: Green Active: Blinking Green Bypass: Amber
Software support	Operating Systems	Red Hat, CentOS Linux (Windows Server and FreeBSD under investigation)
	Virtualization	KVM (VMware under investigation)
Power consumption	+12V	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-2131BP-00A1E	4-port 1G copper bypass NIC with Intel® I350-AM4 controller
PCIE-2131NP-00A1E	4-ports 1G copper NIC with Intel® I350-AM4 controller
PCIE-2131NP-01A1E	2-port 1G copper NIC with Intel® I350-AM2 controller (BOM option)

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