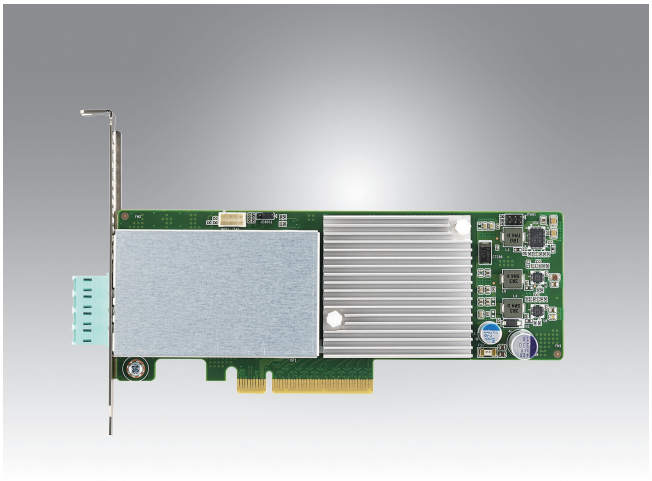
PCIE-2221BP

Dual Port Fiber 10GbE Ethernet PCI Express Server Adapter with Intel® X710-BM2



Features

- 1 x Intel® X710-BM2 Ethernet Controller
- 2 x 10GbE LAN ports
- Supports 10G-SR Optical Bypass Module
- PCIe gen. 3 x8 host interface
- Supports SR-IOV based virtualization
- Low profile and half length form factors

RoHS COMPLIANT 2002/95/EC CE FCC

Introduction

Advantech's PCIE-2221BP is a low-profile dual port 10GbE PCI Express server adapter based on the Intel® X710-BM2 Ethernet Controller. By supporting a PCI Express gen. 3 x8 host interface, this adapter supports fiber interfaces with advanced LAN bypass. PCIE-2221BP is compliant with PCIe card form factor and can be used on Advantech network appliance platforms. Improved support for virtualization, including VMDq and SR-IOV and VEB make the PCIE-2221BP a perfect fit for virtualized environments and applications with network overlays. PCIE-2221BP can be used to achieve high densities of network interfaces on servers and platforms for networking as well as industrial applications.

Specifications

Controller		Intel® X710-BM2 MAC+PHY
	Physical Functions	2
	Virtual Functions	128
	Virtualization Support	VMDq, SRIOV, VEB
Host Interface	PCI Express	8 lanes gen. 3
Network Interfaces	Ports	2 SFP+ cages
	LEDs (per port)	Link/Act LED (Green/Green Blink) Lan Bypass LED (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	10W
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-2221BP-00A1E	2-port 10GbE fiber bypass NIC with Intel® X710 controller