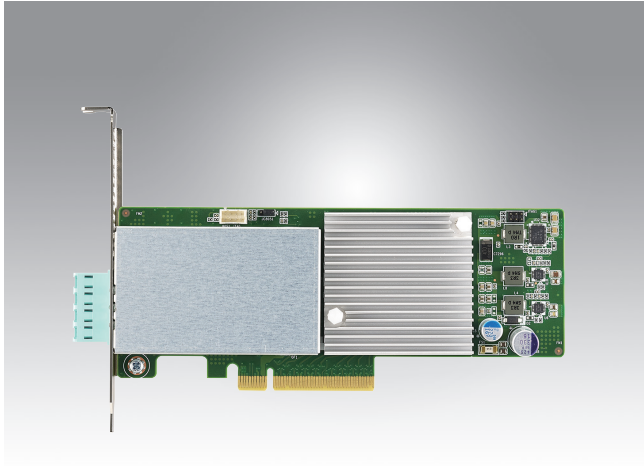


PCIE-2221BP

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, 10G-LR, 10G-ER Optical Bypass Module
- PCIe gen. 3 x8 host interface
- Supports SR-IOV based virtualization
- Low profile and half length form factors



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 | Physical Functions | Intel® X710-BM2 MAC+PHY 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 |

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