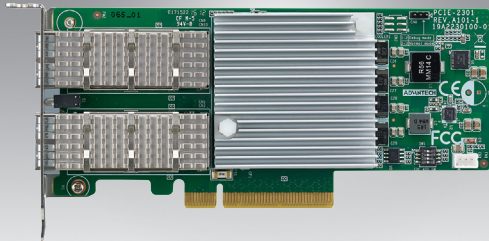


PCIE-2320

Dual Port Fiber 40G Ethernet PCI Express Server Adapter with Intel® XL710-BM2

NEW



Features

- 1 x Intel® Ethernet Controller XL710-BM2
- 2 x 40GbE QSFP+ ports
- Supports 40GBASE-SR and 40GBASE-LR (TBD) transceivers
- PCIe gen. 3 x8 host interface
- Supports SR-IOV based virtualization
- Advanced virtualization and network overlay support
- Low profile and full height form factors



Introduction

Advantech's PCIE-2320 is a low-profile dual port 40GbE Ethernet PCI Express server adapter based on the Intel® Ethernet Controller XL710-BM2. By supporting a PCI Express gen. 3 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on all two 40GbE ports. Dual QSFP+ ports can be configured to support a variety of optical transceivers such as 40GBASE-SR and 40GBASE-LR (TBD) optical modules as well as direct attach cables. Improved support for virtualization, including VMDq, SR-IOV and VEB make the PCIE-2320 a perfect fit for virtualized environments and applications with network overlays. Packet filtering, load balancing and protocol offload capabilities further enhance efficiency by saving valuable processing time on the host.

PCIE-2320 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 | | Intel® XL710-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 QSFP+ cages |
| | Media | 40GBASE-SR, -LR(TBD), -T transceivers, Direct Attach cables |
| | LEDs (per port) | Link/Act LED (Green/Green Blink) Speed: 40GbE (Green) |
| | | |
| 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 | 9W |
| 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-2320NP-00A1E | 2-port 40G fiber (QSFP+) NIC with Intel® XL710 controller |
| PCIE-2320NP-01A1E | 1-port 40G fiber (QSFP+) NIC with Intel® XL710 (BOM option) |

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