

PCI Express x8 Quad Port 10Gigabit Server Adapter (Intel XL710 Based) Key Features •

Quad-port 10 GbE adapters • PCI Express* (PCIe) 3.0, x8 • Exceptional Low Power Adapters • Network Virtualization offloads including Geneve, VXLAN, and NVGRE • Intel® Ethernet Flow Director for hardware-based application traffic steering • Intel® Data Plane Developer Kit (DPDK) optimized for efficient packet processing • Excellent small packet performance

Description: Product Overview Intel continues its legacy of Ethernet leadership by introducing a 40 gigabit family of adapters powered by, the Intel® Ethernet XL710 Controller, codenamed Fortville. The XL710 adapter family addresses the demanding needs of the next-generation agile data center by providing unmatched features for both server and network virtualization, flexibility for L AN and SAN networks, and proven, reliable performance.

Leading 10/40 GbE Performance Optimized performance vectors (and key uses) include: • **Small Packet Performance:**

Maintains wire-rate throughput on smaller payload sizes (>128 Bytes for 40 GbE and >64 Bytes for 10 GbE) • **Bulk Transfer**

Performance: Delivers line-rate performance with low CPU usage for large application buffers • **Virtualized Performance:** Alleviates

hypervisor I/O bottlenecks by providing flow separation for Virtual Machines (VMs) • **Network Virtualization:** Network virtualization

overlay offloads including Geneve, VXLAN, and NVGRE • **Storage Performance:** Enables competitive performance with native OS

drivers and intelligent offload for NAS (NFS, SMB), and SAN (iSCSI and FCoE)

A Complete, Unified Networking Solution Converging data and storage onto one fabric eliminates the need for multiple adapters, cables, and switches. Furthermore both 10 and 40 gigabit Ethernet provides the bandwidth to converge these multiple fabrics onto a single wire. A key capability that makes all this possible is traffic class separation provided by Data Center Bridging (DCB),—providing a one-wire solution with virtual pipes for the different classes of traffic: • **Data:** Best effort delivery of standard L AN traffic • **Storage:** Lossless network for FCoE and iSCSI • **Management:** Guaranteed connectivity of data center IP management

TECHNICAL FEATURES: Controller-processor: Intel® Ethernet Controller XL710-AM2 Network Standards: IEEE 802.3 Physical Layer Interface: • 40GBASE-SR4 • 40GBASE-LR4 Operating temperature: 0 °C to 55 °C (32 °F to 131 °F) Air Flow: Minimum of 150 LFM required Storage temperature: -40 °C to 70 °C (-40 °F to 158 °F) Storage humidity: Maximum: 90% non-condensing relative humidity at 35 °C LED Indicators: LINK (solid) and ACTIVITY (blinking) LINK SPEED (green=10 Gbps; yellow=1 Gbps) Data rate supported per port: • Optical: 10 GbE/40 GbE • Direct Attach: 40 GbE Bus type: PCI Express 3.0 (8 GT/s) Bus width: 4-lane PCI Express* and 8-lane PCI Express Interrupt levels: INTA, MSI, MSI-X **Network Operating Systems (NOS) Software Support** Windows Server 2012 R2* Windows Server 2012 R2 Core Windows Server 2012 Windows Server 2012 Core Windows Server 2008 R2* Windows Server 2008 R2 Core Linux* Stable Kernel version 2.6.32/3x Linux RHEL 6.5 and RHEL 7.0, Linux SLES 11 SP3 and SLES 12 FreeBSD* 9 and FreeBSD* 10 UEFI* 2.1 UEFI* 2.3 VMware ESXi 5.11 (Limited Functionality) VMware ESXi 5.51



10G Dual Server Adapter Copper/Fiber



40G Dual Server Adapter

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