Network card
XL-ENW-9822

Key Features

Low Cost, Low Power, 10 Gigabit Ethernet (10GbE) Performance for the Entire Datacenter

Standard CAT-6a Cabling with RJ45 Connectors

Backward Compatibility with Existing 1000BASE-T Networks Simplifies the Transition to 10GbE

Flexible I/O virtualization for port partitioning and quality of service (QoS) of up to 64 virtual ports

Unified Networking Delivering LAN, iSCSI, and FCoE in One Low Cost CNA

Industry First Dual-Port 10GBASE-T Adapter with Single-Chip Solution with Integrated MAC + PHY

Reliable and proven 10 Gigabit Ethernet technology from Intel Corporation

General

IIntel X540 controller
Low-profile
Load balancing on multiple CPUs
Remote boot iSCSI and FCoE

Support for most Network Operating Systems (NOS)
RoHS compliant, lead-free technology

I/O Features for Multi-core Processor Servers

MSI-X support
Low latency
Header Splits and Replication in Receive
Multiple Queues
Tx/Rx IP, SCTP, TCP, and UDP checksum offloading (IPv4, IPv6) capabilities
Tx TCP segmentation offload (IPv4, IPv6)
IPsec Offload
Compatible with x8 and x16 standard and low-profile
PCI Express* slots
Receive/Transmit Side Scaling for Windows* and
Scalable I/O for Linux* (IPv4, IPv6, TCP/ UDP)
RJ45 connections over CAT-6a cabling

Virtualization Features
VMDq
Next-Generation VMDq(64 queues per port)
PC-SIG SR-IOV Implementation (64 virtual functions per port)
IPv6 Offloading
Advanced Packet Filtering
VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags

Network Management
Wired for Management (WfM) baseline v2.0 enabled for servers
DMI 2.0 support, Windows Management Instrumentation (WMI) and SNMP
Remote Installation Services (RIS)
PXE 2.0 enabled through boot Read-Only Memory (ROM)
Adapter Product Features
Intel PROSet Utility for easy configuration and management
Intel Lead-free technology
Plug and play specification support
Full-height bracket installed; low- profile bracket included in package

Advanced Software Feature
Adapter fault tolerance (AFT)
Switch fault tolerance (SFT)
Adaptive load balancing (ALB)
Virtual Machine Load Balancing (VMLB)
Teaming support
IEEE 802.3ad (link aggregation control protocol)
PCIe Hot Plug /Active peripheral
Component interconnect (PCI)
IEEE 802.1Q VLANs

IEEE 802.3 2005 flow control support
Tx/RxIP,TCP,&UDP checksum offloading (IPv4,IPv6) capabilities(Transmission control protocol TCP),user datagram protocol(UDP), Internet protocol (IP)
IEEE 802.1p
TCP segmentation large send offload
MSI-X supports Multiple Independent Queues
Interrupt moderation
IPv6 offloading

Network Operating Systems (NOS) Software Support

Windows 7 (IA32 and X64)
Windows Server 2008 (x64 and IPF)
Windows Server 2008 Core (x64 and IPF)
Windows Server 2008 R2 (x64 and IPF)
Windows Server 2008 R2 Core (x64 and IPF)
Linux* SLES 11 SP1
Microsoft Windows Server 2003
Microsoft Vista
SUSE* SLES 10 or later, Professional 9.2 or later
Microsoft Windows Virtual Server* 2005
Red Hat Enterprise 4 or later
FreeBSD 5.x or later support
VMware ESX 4.0/4.1, ESXi 5.0 support
Fedora
EFI 1.1