

X540-T2 Network Cards

Specification

- Model Name X540-T2
- Connector RJ-45 (Copper)

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)

Advanced Software Features

- Adapter Fault Tolerance (AFT)
- Switch Fault Tolerance (SFT)
- Adaptive Load Balancing (ALB)
- Virtual Machine Load Balancing (VNLB)
- 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/Rx IP, TCP & UDP checksum offloading (IPv4, IPv6) capabilities Transmission Control Protocol (TCP), User Datagram Protocol (UDP), Internet Protocol (IP)
- Teaming support
- IEEE 802.1p
- TCP segmentation/large send offload
- MSI-X:Multiple Independent Queues
- Interrupt moderation
- IPv6 offloading

Network Operating System (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 Window Server 2003*
- Microsoft Vista*
- SUSE*SLES 10* or later, Professional 9.2 or later
- Microsoft Windows Virutal 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

Hardware Features

- Data rates supported per port
- Bus Type
- Bus width
- Bus speed (x8, encoded rate)
- Interrupt levels
- Hardware certifications
- Controller- processor

100Mbps, 1 Gbps
PCI Express 2.1 (5 GT/s)
x8 lane PCI Express, operable in x8 and x16 slots
20 Gbps uni-directional;
40 Gbps bi-directional
INTA, MSI, MSI-X
FCC A, UL, CE, VCCI, BSMI, CSTICK, KCC
Intel® Ethernet Controller X540



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