



PCIe X8 10Gbps X540 Dual Port Ethernet Server adapter

P/N: MC-PCIE-X540



Overview

X540BT2 is PCI-e 10Gbps Dual RJ45 Port Ethernet Network Card , based on INTEL X540 Chipset, which is used by many OEMs as a single chip solution for LAN on Motherboard (LOM) to deliver 10 Gigabit Ethernet(10 GbE) on the latest server platforms.

10GBASE-T converged network adapter simplifies migration to 10 GbE, provides iSCSI, FCoE, Virtualization, and Flexible Port Partitioning.

Features

Low cost, low power, 10 Gigabit Ethernet (10GbE) performance for the entire data center

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

Network / Transport Protocol: TCP/IP, UDP/IP, IPSec, iSCS

Features Link Aggregation Control Protocol (LACP)

Compliant Standards: IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad (LACP)

Dual Port 10GbE adapters

PCI Express v2.1,5.0 GT/s, x8 lanes

PXE、iSCSI 、 FCoE boot

Standard CAT-6a Cabling with RJ45 Connectors

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

Network Virtualization

IEEE 802.3an/ab and 10G Ethernet Specification Compliance

Low Profile and Full-Height bracket

Package content

- 1 x X540 PCIe Network card
- 1 x User's Manual
- 1 x CD
- 1 x Low profile bracket



System Requirements

- FreeBSD, Linux , VMWare ESXi, Win7/ Win-server2012/ Win-server2008/ Win8/Win8.1/Win-server2016/win10
- One available PCI Express x1 slot

Specification

Controller	Intel X540 BT2
Transmission Rate	10000Mbps
Network Standard Physical Layer Interfaces	Cat-6A 10G up to 100m, Cat-6 10G up to 55m Cat-5E/Cat-6/Cat-6A 1G/100M up to 100m
Jumbo Frame Support	Up to 9.5 KB
Operating Temperature	0° to 55°(32°F to 131°F)
Network Virtualization	VMDq, PCI-SIG SR-IOV, Intel VT-c
LED Indicators	10Gb/s: Green and Green blinking, 1000Mbps/100Mbps: Green and Orange blinking
Power Supply	PCI Express +12V $\pm$ 8% / +3.3V $\pm$ 9%
SYSTEM SUPPORT	Windows Server 2008 R2 / 2012 / 2012 R2 / 2016 R2
	Windows 7 / 8 / 8.1 / 10
	FreeBSD 11.0 or later
	Linux SLES 11 / 12 or later
	Linux Stable Kernel version 2.6.x/3.x/4.x or later
	VMware ESX/ESXi 5.x/6.x or later