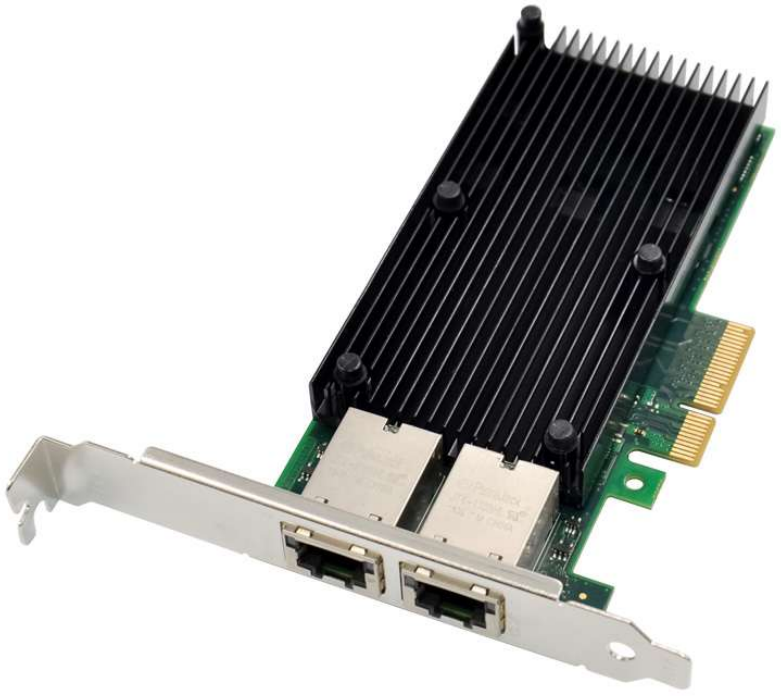
PCIe X4 Intel X550 Dual-RJ45 10G Converged NIC



P/N.: MC-PCIE-X550

USER Manual

EN ver2.0

Description

PCI Express X4 Network adapter adopts Intel a high performance 10G network controller ELX550-AT2 ,By providing unparalleled features of virtualization, flexible features, and proven reliable performance, it solves the high requirements of the generation data center, it has dual 10Gbps RJ45 port which can setup a long-distance link with a file server or a remote workstation.

Specification

- PCI-Express host interface specification v3.0
- Complies with PCI Bus Power Management Interface Specification Rev1.2
- PCI-Express lanes: x4
- Complies with dual port 10GbE RJ45 port
- Operate Speeds: 10Gb/s, 5Gb/s, 2.5Gb/s, 1Gb/s, 100Mb/s
- 10GBASE-T as per the IEEE 802.3an standard
- 1000BASE-T and 100BASE-TX as per the IEEE Standard 802.3-2012
- NBASE-T as per the IEEE P802.3bz/D1.1 Draft Standard for Ethernet Amendment
- Half duplex at 10/100Mbp operation and full duplex operation at all supported speeds
- Layer 2 functions: IEEE 802.3x Flow Control - IEEE 802.1q VLAN
- Supports Receive-side scaling (RSS)
- Supports IPv 4, IPv 6 protocols
- Supports Jumbo Frames up to 15.5K
- Supports UDP.TCP and IP Checksum offloading
- 128 transmit queues
- Statistics for management and RMON

- Support for 64 virtual machines per port (64VMs x2 queues)
- Support for Data Center Bridging(DCB)(802.1Qaz,802.1Qbb,802.1p)
- Interrupt throttling control to limit maximum interrupt rate and improve CPU usage
- Chipset: Intel ELX550-AT2
- Drivers support for FreeBSD, Linux , VMWare ESXi, Win7/ Win-server2012/ Win-server2008/ Win8/Win8.1/Win-server2016/win10

Package content

- 1 x PCIe Network card
- 1 x User's Manual
- 1 x CD Driver
- 1 x Low profile bracket
- ~~Accessories~~

System Requirements

- FreeBSD, Linux , VMWare ESXi, Win7/ Win-server2012/ Win-server2008/ Win8/Win8.1/Win-server2016/win10
- Available PCI Express x4/x8/x16 slot

Cabling Requirements:

Intel 10 Gigabit adapters

- For 10GBASE-T on Category 6,Category6a,or Category 7 wiring, twisted 4-pair copper:
- Category 6 wiring supports 55 meters max.
- Category 6a wiring supports 100 meters max.
- Category 7 wiring supports up to 100 meters

Intel 1 Gigabit adapters

- For 1000BASE-T or 100BASE-TX.use Category 5 or Category5e wiring, twisted 4-pair copper:
- Make sure you use Category 5 cabling that complies with the TIA-568 wiring specification For more information on this specification.
- Length is 100 meters max.
- Category 3 wiring supports only 10Mbps

CAUTION: If using less than 4-pair cabling, you must manually configure the speed and duplex setting of the adapter and the link partner. In addition,with2-and3-pair cabling the adapter can only achieve speeds of up to 100Mbps

- For 100BASE-TX.use Category 5 wiring.
- For10BASE-T.use Category 3 or 5wiring

Hardware installation

1. Turn off the computer and unplug the power cord
2. Remove the computer cover and the adapter slot cover from the slot that matches your adapter
3. Insert the adapter edge connector into the slot and secure the bracket to the chassis
4. Replace the computer cover ,then plug in the power cord

5. Power on the computer

Install Drivers and software

Windows〇,R Operating Systems

You must have administrative rights to the operating system to install the drivers.

1. insert the CD driver bound with Intel network driver into your CD-ROM drive(also you can download the latest drivers from support website):
2. if the Found New Hardware Wizard screen is displayed, click **Cancel**
3. start the autorun located in the software package, the autorun may automatically start after you have extracted files.
4. Click **install Drivers and Software**
5. Follow the instructions in the install wizard to finish it

Installing Linux Drivers from Source Code

1. Download and expand the base driver tar file.
2. Compile the driver module
3. Install the module using the modprobe command
4. Assign an IP address using the ifconfig command

Support

More information and settings, please refer to the Intel Adapter User Guides or you can contact us.