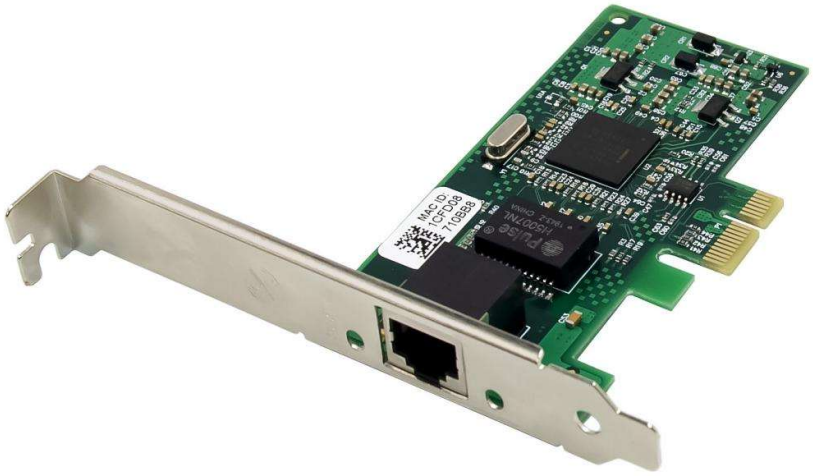
PCIe Intel 82583L Gigabit Network Card



P/N.: MC-PCIEX1-WG82583

USER Manual

EN ver2.0

Description

This PCIe Gigabit Network card is single, compact, low power components that offer a fully-integrated Gigabit Ethernet Media Access Control and physical layer port. It is used of Intel high-performance chip WG82583V,and it is uses the PCI Express architecture and provides a single-Port implementation in a relatively small area so it can be used for server and any other personal computers.

Specification

- Fully compliant with PCI-Express Base Specification Revision1.1
- Single-Lane(x1)PCI-Express with throughput up to 2.5Gbps
- Fully Plug and Play compatible
- Full-duplex operation at 10/100/1000Mb/s
- Half-duplex operation at 10/100Mb/s
- 10/100/1000 data rate auto negotiation operation
- Fully compliant with IEEE802.3,802.3u,802.3ab
- Support full duplex flow control(IEEE802.3x)
- Supports IEEE802.1P Layer 2 Priority Encoding
- Supports IEEE802.1Q VLAN tagging
- IPv4 and IPv6 checksum offload support
- Receive Side Scaling(RSS) with two hardware receive queues
- Supports jumbo frame to 9k bytes
- Crossover detection and Auto correction operation

Package content

- 1 x PCIe Intel WG82583V Gigabit network adapter
- 1 x User's Manual
- 1 x CD
- 1 x Low profile bracket

System Requirements

- FreeBSD, Linux, VMware ESXi,XP,Vista,8,8.1,and 10 32/64bit
- Windows server 2003/Server2008 R2/Server2012 R2
- One available PCIe x1/x4/x8/x16 slot

Cabling Requirements:

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

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 Adapter User Guides or you can contact us.