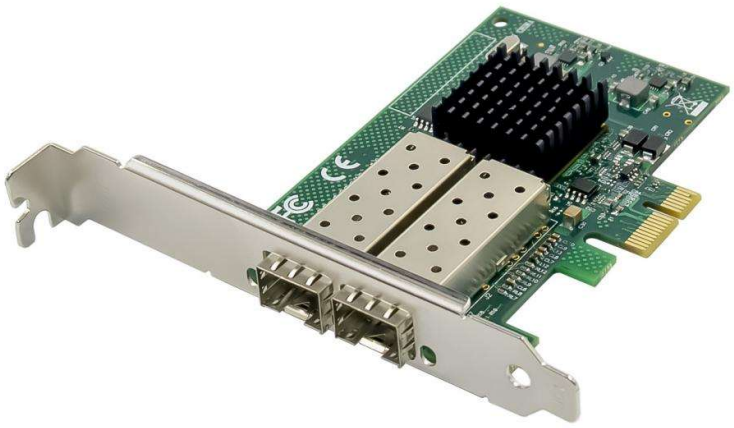
# PCIe Intel JL82576 DUAL 1GbE SFP Ethernet Card



**P/N.:** MC-PCIEX1-82576
USER Manual
EN ver2.0

## Description

PCI Express X1 Network adapter adopts Intel a high performance Gigabit network controller JL82576EB ,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 1Gps SFP port which can setup a long-distance link with a file server or a remote workstation.

## Specification

- PCI-Express host interface specification v2.0 with 2.5GT/s BUS width
- Chipset: Intel JL82576EB
- PCI-Express lanes: x1
- Complies with dual port 1GbE SFP port
- Complies with the IEEE802.3ab specification
- 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 9.5K
- Supports UDP.TCP and IP Checksum offloading
- Statistics for management and RMON
- Support for virtual machines device queues
- Next Generation VMDq Support (8VMs)
- Interrupt throttling control to limit maximum interrupt rate and improve CPU usage
- Drivers support for FreeBSD, Linux , VMWare ESXi, Win7/ Win-server2012/ Win-server2008/ Win8/Win8.1/Win-server2016/win10

## Package content

- 1 x SFP 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
- One available PCI Express x4/x8/x16 slot

## Cabling Requirements:

**Intel 1 Gigabit adapters**

- SFP Module Laser wavelength:850 nanometer (not visible)
- **LC Cable type:**
  - Multi-mode fiber with 50 micron core diameter, maximum length is 550 meters
  - Multi-mode fiber with 62.5 micron core diameter, maximum length is 275 meters
  - Connector type: LC
- SFP Module laser wavelength:1310 nanometer(not visible)
- **LC Cable type:**
  - Multi-mode fiber with 9 micron core diameter, maximum length is 3K meters

## 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.