

PCIe x8 Intel X710 Dual Port 40G QSFP+ Converged Adapter



P/N.: MC-PCIEX8-XL710-QDA2

USER Manual

EN ver2.0

Description

PCIe x8 Intel X710 Dual-Port 40G QSFP+ Converged adapter is used 710 series implements a PCIe v3.0 x8 host interface, which operates at up to 8GT/S or 64Gb/s .It provides complete functionality to support two 40Gb/s ports, the device perform all functions required for transmission and reception as specified in IEEE Std. Extending Intel[®] Virtualization Technology beyond Server Virtualization to the Network with Hardware Optimizations and Offloads for the Rapid Provisioning of Network in an Agile Data Center.

Specification

- PCI-Express host interface specification v3.0 x8 and higher
- Supports the PCI Bus Power Management specification and section 5 of the PCI Express Base Specification
- PCI-Express lanes: x8
- Dual-port 40GbE adapters
- Network Virtualization offloads including VXLAN, NVGRE, Geneve and Network Service Headers.
- Intel[®] Ethernet Flow director for hardware based application traffic steering.
- Intelligent offloads to enable high performance with Intel[®] Xeon processor-based servers
- Packet checksum offloads: Calculates IP,UDP, TCP, and Stream transmission Protocol checksums for insertion into transmitted packets and for integrity checking on received packets, Includes support for UDP and TCP checksums in both IPv4 and IPv6 data grams.
- I/O virtualization innovations for maximum performance in a virtualized server
- Support for optional End-to-End CRC generation and checking
- Supports up to 1024 LAN queue sets(768 typically available)
- Supports up to 384 VSIs with average of two TCs allocated per VSI
- Supports up to 16VEB/VEPA switching components

- Supports Network standard: IEE802.3 40GBASE-SR4 ,40GBASE-LR4,40GBASE-CR4
- Supports the PXE remote boot standard ,Also supports Internet small Computer system interface
- Chipset: Intel XL710-BM2

Package content

- 1 x PCIe x8 Intel XL710 Dual-Port 40G QSFP+ Converged adapter
- 1 x User's Manual
- 1 x CD Driver
- 1 x Low profile bracket
- **Accessories**



System Requirements

- FreeBSD, Linux , VMWare ESXi, Win-server2012 R2/ Win-server2008 R2/
- One available PCI Express x8/x16 slot

Cabling Requirements:

Intel 40 Gigabit adapters

- Laser wavelength: 850 nanometer (not visible)
- SC Cable type:
 - Multi-mode fiber with 50micron core diameter, maximum length is 550 meters.
 - Multi-mode fiber with 62.5 micron core diameter, maximum length is 275 meters.
- 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.

Copper cables

- 40 Gigabit Ethernet over QSFP+ Direct Attached Cable(Twinaxial)
 - Length is 7 meters max

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[®] 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.