

FMXL710-40G-Q1

PCIe v3.0 x8 40 Gigabit 1 Port Server Ethernet Adapter



Product Features

- ❖ Support for jumbo frame up to 9.5KB
- ❖ Flow control support
- ❖ Priority Flow Control (draft IEEE 802.1Qbb)
- ❖ Enhanced Transmission Selection (draft IEEE802.1az)
- ❖ Statistics management and RMON
- ❖ 802.1q VLAN support
- ❖ DCB/DCB-X support

- ❖ Message Signal interrupts (MSI-X)
- ❖ Storage - Enabling competitive performance with native OS intelligent offload solutions, including NAS, iSCSI

Description

FMXL710-40G-Q1 is a 40G fiber network card dedicated to server , it has one 40G QSFP+ interface, can support 40Gbps transmission bandwidth, and support PCI-E X8 standard slot, ensure the network card efficient and stable work. In addition, the network card also supports VLAN, QOS strategy, flow control and other functions, suitable for medium and large LAN applications.

Host Interface

- ❖ PCI Express X8 lanes
- ❖ Support PCI Express Base Specification 3.0 (8GT/sec)

LAN and Virtualization Features

- ❖ Network Virtualization offloads for VXLAN and NVGRE
- ❖ Unified Networking Providing a single wire for LAN and storage: NAS (SMB, NFS) and SAN (iSCSI)
- ❖ Virtual Bridging Support – VEPA/802.1Qbg, BPE/802.1Qbh
- ❖ Physical Functions – Up to 8 per port, up to 16 per device
- ❖ Support for 128 Virtual Device Queues (VMDq) per port
- ❖ Hardware Queue Pairs – Up to 1.5K (non-RDMA); up to 256K (RDMA)
- ❖ Virtualization - Alleviating hypervisor I/O bottlenecks by providing flow separation for Virtual Machines (VMs)

TCP/IP/L2 Features

- ❖ Receive Side Scaling (RSS)
- ❖ Large Send Offload (LSO)
- ❖ TCP/UDP/IP/SCTP Checksum Offload
- ❖ IPV4, IPV6

Product Specification

Product Model	FMXL710-40G-Q1
Product Name	40G single channel industrial fiber network card
Product Type	Ethernet server network card
Processor Chip	Intel XL710-BM1 chip
Bus Type	PCI Express X8, compatible with the X8 and X16 pci-e slots
Network Interface Type	QSFP+
System Interface Type	PCIe v3.0 (8.0GT/s)
Ethernet Storage	iSCSI,NFS
Transmission Rate (Mbps)	40G
Type of Transmission Medium	Optical fiber
Web Standards	IEEE802.3
Specific Features	<p>Intel Virtualization Technology for Connectivity;Virtual machine device queue (VMDq) and sr-ioV; Advanced packet filtering (by port); VLAN support and VLAN tag insertion, removal and packet filtering; iSCSI acceleration, iSCSI remote boot; Adapter fault tolerance, switch fault tolerance; Adaptive load balancing; Grouping support; TCP check and unload, TCP segment/large send unload, alleviate interrupt; IPv6 unloading;</p>

Compatible Operating System	Windows Server 2016 R2; Windows Server 2012 R2; Windows Server 2012; Windows Server 2012 R2*, Windows Server 2012 R2 Core, Windows Server 2012 Windows Server 2012 Core, Windows Server 2008 R2*, Windows Server 2008 R2 Core Linux* Stable Kernel version 2.6.32/3x, Linux RHEL 6.5 and RHEL 7.0, Linux SLES 11 SP3 and SLES 12, FreeBSD* 9 and FreeBSD* 10, UEFI* 2.1,UEFI* 2.3, VMware ESXi 5.1(Limited Functionality), VMware ESXi 5.x ,6.x		
Compatible Server Brand	Lenovo server, inspur server, HP server, cisco server, huawei server, dell server, asus server, IBM server, shuguang server, tsinghua tongfang server, Great Wall server, wuzhou server, baode server, microstar server, zhengrui server and DIY server		
Certification	High-tech certification, ISO9001 certification, CE certification, FCC certification, ROHS certification, REACH certification		
Length	15 cm (5.90 inches)	Width	6.8 cm (2.68 inches)
Working Temperature	0°C~55°C (32°F~131°F)	Storage Temperature	-40°C~70°C (-40°F~158°F)

Ordering Information

Part Number	Product Description
FMXL710-40G-Q1	Intel XL710-BM1, PCIe V 3.0 x8 (8.0GT/s), 40 Gigabit 1 Port, 40Gbps Transmission Rate