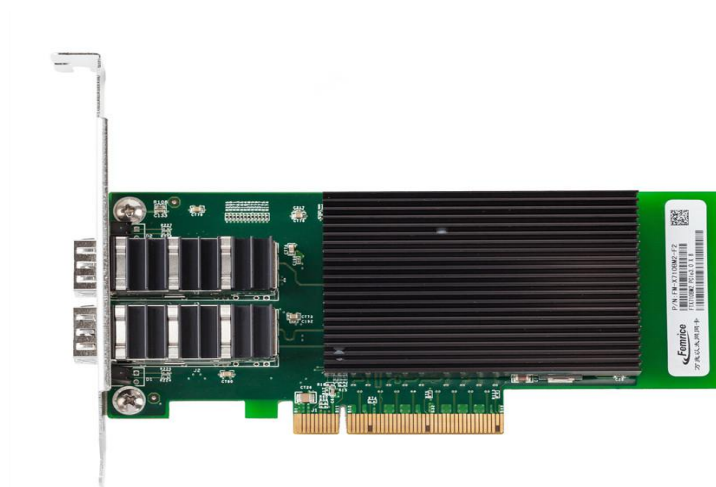


Best.nr: 20100304

10G Fiber Optical Dual Port PCI Express Network Adapter

Product Overview:

Extending Intel Virtualization Technology Beyond Server Virtualization to the Network with Hardware Optimizations and Offloads for the Rapid Provisioning of Networks in an Agile Data Center.



Key Features

- Dual-port 10GbE adapters
- Supports 2x10GbE configurations
- PCI Express* (PCIe*) 3.0, x8
- Exceptional low power adapters
- Network Virtualization offloads including VXLAN, NVGRE, and Geneve 1
- Intel® Ethernet Flow Director (Intel® Ethernet FD) for hardware-based application traffic steering
- Data Plane Development Kit (DPDK) optimized for efficient packet processing
- Excellent small packet performance for network appliances and Network Functions Virtualization (NFV)
- Intelligent offloads to enable high performance with Intel® Xeon® processor-based servers
- I/O virtualization innovations for maximum performance in a virtualized server
- Unified networking providing a single wire support for LAN and storage: NAS

Leading 10 GbE Performance

- Small Packet Performance: Maintains wire-rate throughput on smaller payload sizes
- Bulk Transfer Performance: Delivers line-rate performance with low CPU usage for large application buffers
- Virtualized Performance:Alleviates hypervisor I/O bottlenecks by providing flow separation for Virtual Machines (VMs)
- Network Virtualization:Network virtualization overlay offloads including VXLAN, NVGRE,and Geneve
- Storage Performance:Enables competitive performance with native OS drivers and intelligent offload for NAS (NFS, SMB), and SAN (iSCSI)

Basic Information:

Products Name	10Gbps Quad Port Gigabit Ethernet Server Network Card		
Products Type	P0100304		
Chipset	Intel XL710		
Bus Interface	x8 (x16) PCIe* 3.0		
Whole Duplex	Compatible Whole Duplex and Half Duplex		
Network Interface Type	SFP+ Slot*2, LC Fiber		
Transmission Speed	10Gbps		
Transmission Medium Type	LC Fiber, Comply with MMF62.5/50 Micron		
Network Standard	IEEE802.3 10GBASE-SR,10GBASE-LR		
Date Rate	10G/s		
Fiber Module	10G-SFP+-SR 10G-SFP+-LR		
Long-range Awaken Function	Support		
Operating System	IA-32	X86-64	IA-64
Windows Server2012 R2*	N/A	X	N/A
Windows Server2012 R2 Core	N/A	X	N/A
Windows Server2012	N/A	X	N/A
Windows Server2012 Core	N/A	X	N/A
Windows Server2008 R2*	N/A	X	N
Windows Server2008 R2 Core	N/A	X	N
Linux* Stable Kernel Version 2.6/4x	N/A	X	X
Linux RHEL 6.6,6.7 and 6.8	N/A	X	X
Linux SLES 11 SP4 and SLES 12SP1	N/A	X	X
FreeBSD* 10.2/10.3/11	N/A	X	X
UEFI*2.1	N/A	X	X
UEFI*2.3 And 2.4	N/A	X	X
VM Ware ESXI 2.1(Limited Functionality)	N/A	X	N/A
VM Ware ESXI 5.5	N/A	X	N/A

Working Humidity	85%	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Working Temperature	0 °C to 55 °C (32 °F to 131 °F)	Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °
Length	13.3cm	Full-height Bracket	12cm
Width	6.8cm	Low-profile Bracket	8cm
Packing Standard Size (Unit)		23cm*14.6cm*2.7cm	

Server Virtualization:

VMDq for Emulated Pat,SR-IOV for Direct Assignment,VEPA,VEB:

Intelligent Offloads:

TCP Stateless Offload,Host iSCSI Initiator,Flow Classification

Power Savings

Power efficiency is critical to IT specialists as energy consumption is a real OpEx concern.

LAN/SAN for Today's Data Centers

- Data: Best effort delivery of standard LAN traffic
- Storage: Lossless network for iSCSI
- Management: Guaranteed connectivity of data center IP management.

Using Environment

DELL Server,HP Server,IBM Server,INSPUR Server,Lenovo Server and other big server brand,IT System Integrator,Cloud,Big Data Center,Workstation,PC,FTTD Solution(Fiber to the desk) for Government,institution, School, personal using ,IDC etc.

Partners and End-Users

China Telecom, China Netcom, China Railcom, China Unicom, Space Unisign servers, Bank of China, Founder Technology, Dawning servers, Lenovo servers, IBM servers, HP servers, Dell servers, the Great Wall Broadband, Beijing Radio and Television General Institute, , World Chinese Youth Federation, Tsinghua Huambo, China Urban Planning and Design, Gehua, The People's Republic of China Ministry of Railways, China City Planning Information Network, etc.

