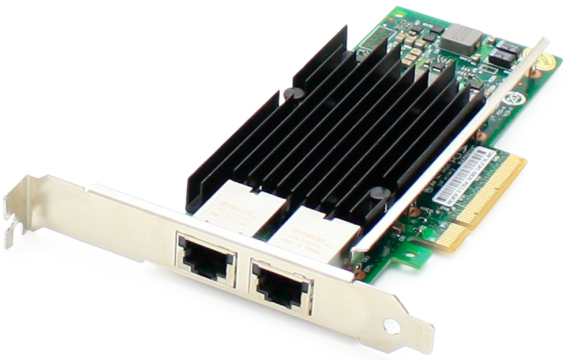
C-PCIE3-2RJ45-10G

10Gbs Dual RJ-45 Port 100m PCIe 3.0 x8 Network Interface Card



Features

- Low cost, low power, 10GbE performance for the entire datacenter
- New generation dual port 10GBase-T controller with integrated MAC and PHY
- Standard CAT 6a cabling with RJ45 connectors
- Supports NBase-T* technology (2.5 and 5.0 GbE over CAT 5e)
- Backward compatibility with existing 1000Base-T networks simplifies the transition to 10GbE
- PCI Express* (PCIe*) v 3.0 with up to 8.0 GT/s
- Unified networking delivering LAN iSCSI and FCoE in one low-cost CNA
- Flexible 1/0 virtualization for port partitioning and Quality of Service (QoS) of up to 64 virtual ports
- Reliable, proven 10GbE technology from Intel Corporation

Product Description

This is a 10-Gigabit Ethernet PCIe 3.0 x8 network interface card with dual RJ-45 ports that comply with IEEE 802.3 standards. It is based on an Intel X550 chipset and is compatible with a variety of different applications and operating systems, including Windows, Linux and Unix-like systems. Providing 10Gbs of network speed, it fully supports high-end servers and various other networking applications. In addition, this card supports high level VLAN filtering. The dual RJ-45 ports operate over copper patch cable, allowing for an operating distance of 100m. This product includes both half-height and full-height brackets. Our network interface cards are 100% compliant and offer a cost effective solution for all of your network upgrade needs. With our certification test program, we guarantee your product will work right the first time.

Specifications

Parameter	Specification
Controller	Intel Ethernet Controller X550AT2
Baffle Height	Full height and half height
Power Consumption	Typical Power 11.2W; Maximum Power 13.0W
System Support	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 5.5
Ports	Dual 10GBASE-T RJ45 Port
Bus type	PCIe v3.0 (8.0GT/s) (2.0 and 1.1 compatible)
Bus Width	x4 lane PCIe operable in x8 and x16 slots
Data rate supported per port	10 GbE
LED Indicators	Link (green/orange bright) and ACTIVITY (green flashing) Link Rate(green=10Gbps ; orange=1Gbps/100Mbps)
Virtual Machine Device Queues (VMDq)	Offloads data sorting from the hypervisor to silicon, improving data throughput and CPU usage • QoS feature for Tx data by providing round-robin servicing and preventing head-of-line blocking • Sorting based on MAC addresses and VLAN tags
Support for PCI-SIG SR-IOV	Up to 64 VFs per port
IEEE 802.1Q VLAN Support with VLAN Tag	Ability to create multiple VLAN segments
VXLAN Stateless Offloads	A framework for overlaying virtualized layer 2 networks over layer 3 networks. VXLAN enables users to create a logical network for VMs across different networks
NVGRE Stateless Offloads	Network Virtualization using Generic Routing Encapsulation. The encapsulation of an Ethernet Layer 2 Frame in IP that enables the creation of virtualized Layer 2 subnets that can span physical Layer 3 IP networks
Intel® Flow Director	Yes
MSI-X	Yes
FPP - 64 VFs Per Port	Yes
Tx/Rx IP SCTP TCP and UDP Checksum Offloading (IPv4IPv6) Capabilities	Yes

Tx TCP Segmentation Offload	Yes
SNMP and RMON	Yes
Protocol Support	IEEE 802.1Q* VLANs IEEE 802.3 2005* flow control support compatible 10 GbE and 1 GbE Ethernet/ 802.3ap (KX/KX4) Specification compatible the 10 GbE 802.3ap (KR) Specification
PXE	Yes
WoL	No
Jumbo frames	15.5 KB
Ethernet power management	Yes
Storage	iSCSI, NFS, FCoE, SMB
Operating temperature	0 °C to 55 °C (32 °F to 131 °F)
Storage temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Storage humidity	Maximum: 90% non-condensing relative humidity at 35 °C
Air Flow	Minimum of 1 50 LFM required
Certifications	FCC CE RoHS
Size (LxWxH) mm	137*69*1.6 mm