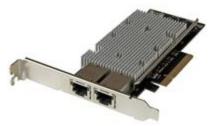## 2-Port PCI Express 10GBase-T Ethernet Network Card - with Intel X540 Chip

StarTech ID: ST20000SPEXI

Now, you can add 10 GbE networking, while minimizing your deployment costs. This 10Gbase-T network card (NIC) lets you add two RJ45 ports through a single PCI Express slot, to deliver reliable high-speed network connections to your workstations and servers without draining your budget.

Versatile and cost effective

Compatible with a broad range of operating systems, this versatile dual-port NIC is ideal for many business applications that require upgrades to servers or workstations. It's a cost-effective way to enhance your server or computer capabilities by adding two powerful 10-Gigabit Ethernet ports, with support for advanced features such as VLAN tagging, jumbo frames, Wake-On LAN and Auto-MDIX.

Reliable, high-performance connectivity

This 2-port PCI Express 10GBase-T network card features the Intel® X540 chipset, designed to deliver the power, performance and enhanced capabilities you need for reliable network connections to your server or computer. The X540 chipset provides many advanced features including Intel® Virtualization Technology for connectivity and PXE network boot support.

Compliant with IEEE 802.3/u/ab standards, the network card delivers a dependable way to upgrade or replace your existing network ports with dual 100/1000/10G compatible RJ45 ports, providing throughput capability of up 10Gbps in each direction (20Gbps total). It connects through a single, four-lane (x4 or higher) PCI Express slot.

Easy installation

With a dual-profile design, the PCI Express network card installs easily into a wide range of computer/server chassis, regardless of form factor. The card comes equipped for installation in a full-sized chassis, and includes a low-profile/half-height installation bracket that you can use as needed.

The ST20000SPEXI is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Applications

- Upgrades to servers or workstations in need of enhanced performance, advanced features and greater reliability
- Upgrade a 10/100/1000 Ethernet port on your computer to 10GbE networking
- Ideal for high-demand database servers and mission-critical systems that need redundant network connectivity
- Add networking capabilities to an old system with no Ethernet port

Features

- Add two 100/1000/10Gbase-T RJ45 ports, providing cost-effective network connectivity for high bandwidth workstations and servers
- Intel X540 chipset with Intel® Virtualization Technology for Connectivity
- Up to 20Gbps (full duplex) bandwidth per port
- Compliant with PCI Express Rev2.0 specification, using PCIe x4 (or higher) slot
- PXE network boot support
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Support for 802.3ad Link Aggregation
- Auto-MDIX support
- Autonegotiation support
- Up to 15K jumbo frame support
- Wake-on-LAN support
- IEEE802.3az Energy Efficient Ethernet (EEE)
- Supports IEEE 802.1Q VLAN tagging
- Full or low-profile (LP bracket included) installation

Technical Specifications

Warranty	2 Years
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Chipset ID	Intel X540
Industry Standards	IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T), IEEE 802.3u (100BASE-T), IEEE 802.3az (EEE - Energy Efficient Ethernet) PCI Express Rev 2.0
Interface	RJ45 (10 Gigabit Ethernet)
Port Style	Integrated on Card
Ports	2
Auto MDIX	Yes
Compatible Networks	100/1000/10000 Mbps (10Gb)
Full Duplex Support	Yes
Jumbo Frame Support	15K max.
Maximum Data Transfer Rate	20Gbps (full-duplex), 10Gbps (half-duplex)
Supported Protocols	IEEE 802.3ad (link aggregation), IEEE 802.1q (VLAN tagging)
Connector Type(s)	1 - PCI Express x8 Male
External Ports	2 - RJ-45 Female
OS Compatibility	Windows® 10 (32/64), 8 / 8.1 (32/64), 7 (32/64) Windows Server® 2012, 2012 R2, 2008 R2 Linux 2.4.x/ 2.6.x / 3.x (Tested up to 3.5) ESXi 5.1/5.5
System and Cable Requirements	Available PCI Express x4 slot
LED Indicators	2 - Link Speed
LED Indicators	2 - Link Activity
Humidity	20~80% RH
Operating Temperature	5°C to 50°C (41°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Color	Black
Product Height	4.7 in [120 mm]
Product Length	6.4 in [163 mm]

Product Weight	5.6 oz [160 g]
Product Width	0.8 in [20 mm]
Shipping (Package) Weight	8.8 oz [250 g]
Included in Package	1 - PCI Express 10GBase-T Ethernet card
Included in Package	1 - low-profile bracket
Included in Package	1 - instruction manual

Certifications, Reports and Compatibility