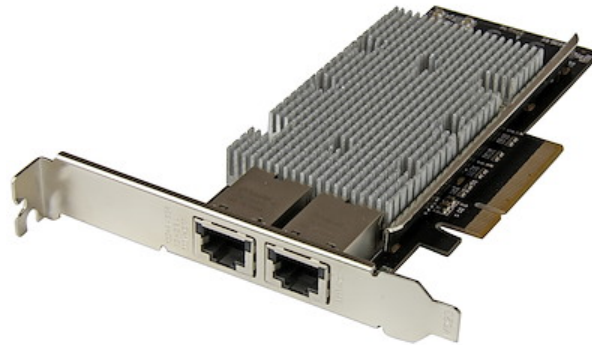2-Port PCI Express 10GBase-T Ethernet Network Card - with Intel X540 Chip

**Product 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.

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, and Auto-MDIX.

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 (x8 or higher) PCI Express slot.

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.

Developed to improve performance and security, StarTech.com Connectivity Tools is the only software suite on the market that works with a wide range of IT connectivity accessories. The software suite includes:

Mac Address Pass-Through Utility: To improve network security.

Wi-Fi Auto Switch Utility: Enabling users to quickly access faster network speeds via wired LAN.

For more information and to download the StarTech.com Connectivity Tools application, please visit: www.StarTech.com/Connectivity-Tools

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

## Certifications, Reports and Compatibility

## 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 x8 (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

• IEEE802.3az Energy Efficient Ethernet (EEE)

• Supports IEEE 802.1Q VLAN tagging

• Full or low-profile (LP bracket included) installation

• CONNECTIVITY TOOLS: Provided with this device, the application improves performance and security, featuring MAC Address Changer & Wi-Fi Auto Switch utilities

**Hardware**

| | |
|---|---|
| Warranty | 2 Years |
| Ports | 2 |
| Interface | RJ45 (10 Gigabit Ethernet) |
| Bus Type | PCI Express |
| Card Type | Standard Profile (LP bracket incl.) |
| Port Style | Integrated on Card |
| Industry Standards | IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T), IEEE 802.3u (100BASE-T) |
| | PCI Express Rev 2.0 |
| Chipset ID | Intel - X540 |

**Performance**

| | |
|---|---|
| Maximum Data Transfer Rate | 20Gbps (full-duplex), 10Gbps (half-duplex) |
| Compatible Networks | 100/1000/10000 Mbps (10Gb) |
| Auto MDIX | Yes |
| Full Duplex Support | Yes |
| Jumbo Frame Support | 9K max. |
| Promiscuous Mode | Yes |
| Supported Protocols | IEEE 802.3ad (link aggregation), IEEE 802.1q (VLAN tagging) |

**Connector(s)**

| | |
|---|---|
| Connector Type(s) | PCI Express x8 |
| External Ports | RJ-45 |

**Software**

| | |
|---|---|
| OS Compatibility | Windows 7, 8, 8.1, 10, 11 |
| | Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019 |
| | (Windows Drivers are supported in 64-bit only) |
| | Linux 2.4.x to 4.11.x <i>LTS versions only</i> |
| | ESXi 5.1/5.5 |

**Special Notes / Requirements**

| | | |
|---|---|---|
| | System and Cable Requirements | Available PCI Express x8 slot |

**Indicators**

| | | |
|---|---|---|
| | LED Indicators | Link Speed |
| | | Link Activity |

**Environmental**

| | | |
|---|---|---|
| | Operating Temperature | 5C to 50C (41F to 122F) |
| | Storage Temperature | -20C to 60C (-4F to 140F) |
| | Humidity | 20~80% RH |

**Physical Characteristics**

| | | |
|---|---|---|
| | Color | Black |
| | Product Length | 6.4 in [16.3 cm] |
| | Product Width | 0.8 in [20 mm] |
| | Product Height | 4.7 in [12 cm] |
| | Weight of Product | 5.5 oz [157 g] |

**Packaging Information**

| | | |
|---|---|---|
| | Package Length | 5.8 in [14.7 cm] |
| | Package Width | 8.2 in [20.8 cm] |
| | Package Height | 1.6 in [40 mm] |
| | Shipping (Package) Weight | 8.5 oz [242 g] |

**What's in the Box**

| | | |
|---|---|---|
| | Included in Package | PCI Express 10GBase-T Ethernet card |
| | | low-profile bracket |
| | | instruction manual |