

# 1-Port 10G Ethernet Network Card - PCI Express - Intel X550-AT Chip

Product ID: ST10000SPEXI



Here's a powerful and cost-effective solution for upgrading your server or workstation to 10 Gigabit Ethernet networking over copper. This PCI Express 10G NIC lets you add an Ethernet port to your server or desktop computer and access your network at multiple speeds: 10G, 5G, 2.5G 1G and 100Mbps.

## Reliable, high-performance connectivity

This 10G network card utilizes the Intel® X550-AT chipset, delivering the power, performance and enhanced capabilities you need for dependable network connections. Compliant with IEEE 802.3u/ab/ac standards, the 1-port 10G card delivers a dependable way to upgrade or replace your existing network port, providing throughput capability of up to 10Gbps in each direction (20Gbps total). It connects easily through a single, four-lane (x4 or higher) PCI Express slot.

The Intel X550-AT chipset provides many advanced features including Intel® Virtualization Technology for connectivity and PXE network boot support. The Intel chipset provides many advanced features to support load-balancing the flow of network traffic, to enhance throughput and provide greater data reliability. It supports Audio-Video Bridging (AVB) to enable tightly controlled media stream synchronization, buffering and resource reservation. It also lets you take advantage of advanced features such as VLAN tagging, up to 15K jumbo frame support and Auto MDIX.

### **Cost-effective and versatile multimode connectivity**

This five-speed NIC provides a cost-effective and versatile networking solution, by giving you the additional bandwidth your network needs without having to overhaul your infrastructure wiring. It lets you add an Ethernet port which can be accessed at multiple speeds 10G, 5G, 2.5G 1G and 100Mbps. Compatible with a broad range of operating systems, the 10G NIC is fully compliant with 10GBase-T and NBASE-T™ specifications. (10G network speeds require Cat6a cable. All other speeds require Cat5e cable.)

The PCIe 10G network card features advanced NBASE-T technology, supporting the latest multigigabit equipment, including new Cisco® campus switches and Aruba Networks® access points. The card enables you to connect to NBASE-T based equipment at network speeds of 2.5Gbps or 5Gbps, over your existing Cat5e infrastructure, without having to upgrade to more expensive Cat6a. The Ethernet network card also supports the more common 10G over copper, and 1G network connections using existing Cat 6/Cat5e or better cabling.

### **Easy installation**

With its dual-profile design, the network card is easy to install into a wide range of computer/server chassis, regardless of form factor. The card comes equipped with a full-sized bracket, and includes a low-profile/half-height installation bracket that you can use as needed.

The ST10000SPEXI is backed by a StarTech.com 2-year warranty and free lifetime technical support.

## Certifications, Reports and Compatibility



## Applications

- Upgrade your server or workstation to provide 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 a 10G /5G/2.5G/1G/100Mbps R-J45 Ethernet port to provide cost-effective network connectivity for high bandwidth workstations and servers
- Compliant with 10GBase-T and NBASE-T specifications
- Intel X550-AT chipset with Intel Virtualization Technology for connectivity (Intel VT-c)
- Fully compliant with IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T), IEEE 802.3u (100BASE-T)
- Up to 20Gbps (full duplex) bandwidth
- Up to 9K jumbo frame support
- PXE network boot support and Auto MDIX

|                                     |                               |   |
|-------------------------------------|-------------------------------|---|
| <b>Hardware</b>                     | Warranty                      | 2 Years   |
|                                     | Bus Type                      | PCI Express   |
|                                     | Card Type                     | Standard Profile (LP bracket incl.)   |
|                                     | Chipset ID                    | Intel - X550AT  |
|                                     | Industry Standards            | IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T),<br>IEEE 802.3u (100BASE-T)<br>NBASE-T  |
|                                     |                               | PCI Express Rev 2.0   |
|                                     |                               | IEEE 802.1Q VLAN Tagging  |
|                                     |                               | IEEE 802.3x Full Duplex Flow Control  |
|                                     | Interface                     | RJ45 (10 Gigabit Ethernet)  |
|                                     | Port Style                    | Integrated on Card  |
|                                     | Ports                         | 1   |
| <b>Performance</b>                  | Auto MDIX                     | Yes   |
|                                     | Compatible Networks           | 10 Gbps/5G/2.5G/1G/100 Mbps   |
|                                     | Full Duplex Support           | Yes   |
|                                     | Jumbo Frame Support           | 9K max.   |
|                                     | Maximum Data Transfer Rate    | 10 Gbps   |
|                                     | Promiscuous Mode              | Yes   |
|                                     | Supported Protocols           | IEEE 802.3x (Flow Control Support)<br>IEEE 802.1Q (VLAN tagging)  |
| <b>Connector(s)</b>                 | Connector Type(s)             | 1 - PCI Express x4 Male   |
|                                     | Internal Ports                | 1 - RJ-45 Female  |
| <b>Software</b>                     | OS Compatibility              | Windows® 7, 8, 8.1, 10 (64-bit only)<br>Windows Server® 2008 R2, 2012, 2012 R2 (64-bit only),<br>2016<br>Linux 2.4.x to 4.11.x <i>LTS Versions Only</i><br>ESXi 5.1/5.5/6.0 |
| <b>Special Notes / Requirements</b> | System and Cable Requirements | For Windows, NBase-T support requires Windows 8 or higher   |
| <b>Indicators</b>                   | LED Indicators                | 1 - Link/Activity<br><br>1 - 10G/1G Speed   |
|                                     |                               |   |
| <b>Environmental</b>                | Humidity                      | 20~80%  |
|                                     | Operating Temperature         | 5°C to 50°C (41°F to 122°F)   |
|                                     | Storage Temperature           | -20°C to 60°C (-4°F to 140°F)   |

|                                 |                           |                         |
|---------------------------------|---------------------------|-------------------------|
| <b>Physical Characteristics</b> | Cable Length              | 3.9 in [100 mm]         |
|                                 | Color                     | Black                   |
|                                 | Product Height            | 4.8 in [121 mm]         |
|                                 | Product Length            | 6 in [152.2 mm]         |
|                                 | Product Weight            | 3.4 oz [96 g]           |
|                                 | Product Width             | 2.7 in [68.5 mm]        |
| <b>Packaging Information</b>    | Shipping (Package) Weight | 0.4 lb [0.2 kg]         |
| <b>What's in the Box</b>        | Included in Package       | 1 - 10G network card    |
|                                 |                           | 1 - low-profile bracket |
|                                 |                           | 1 - quick-start guide   |

Product appearance and specifications are subject to change without notice.