

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.

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/an 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.

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.

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.

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 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
- 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	1
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) NBASE-T PCI Express Rev 2.0 IEEE 802.1Q VLAN Tagging IEEE 802.3x Full Duplex Flow Control
Chipset ID	Intel - X550AT

Performance

Maximum Data Transfer Rate	10 Gbps
Compatible Networks	10 Gbps/5G/2.5G/1G/100 Mbps
Auto MDIX	Yes
Full Duplex Support	Yes
Jumbo Frame Support	9K max.
Promiscuous Mode	Yes
Supported Protocols	IEEE 802.3x (Flow Control Support) IEEE 802.1Q (VLAN tagging)

Connector(s)

Connector Type(s)	PCI Express x4
Internal Ports	RJ-45

Software

OS Compatibility	Windows 7, 8, 8.1, 10, 11 Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019
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(Windows Drivers are supported in 64-bit only)

Linux 2.4.x to 4.11.x <i>LTS Versions Only</i>

ESXi 5.1/5.5/6.0

Special Notes / Requirements

System and Cable Requirements	For Windows, NBase-T support requires Windows 8 or higher
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Indicators

LED Indicators	Link/Activity 10G/1G Speed
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Environmental

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

Physical Characteristics

Color	Black
Material	Steel
Cable Length	3.9 in [100 mm]
Product Length	6.0 in [15.2 cm]
Product Width	2.7 in [68.5 mm]
Product Height	4.8 in [12.1 cm]
Weight of Product	3.4 oz [96.0 g]

Packaging Information

Package Length	8.2 in [20.9 cm]
Package Width	5.7 in [14.5 cm]
Package Height	1.6 in [40.0 mm]
Shipping (Package) Weight	6.1 oz [172.0 g]



What's in the Box

Included in Package	10G network card
	low-profile bracket
	quick-start guide

****Product appearance and specifications are subject to change without notice.***

