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/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.

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 (with Linux® only) 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

RoHS Compliant
Available

CE

FC

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

Hardware	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), IEEE 802.3u (100BASE-T) NBASE-T (Linux only)
		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
Performance	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
	Supported Protocols	IEEE 802.3x (Flow Control Support) IEEE 802.1Q (VLAN tagging)
Connector(s)	Connector Type(s)	1 - PCI Express x4 Male
	Internal Ports	1 - RJ-45 Female
Software	OS Compatibility	Windows® 7, 8, 8.1, 10 (64-bit only) Windows Server® 2008 R2, 2012, 2012 R2 (64-bit only), 2016 Linux 2.4.x/2.6x/3.x LTS Versions Only ESXi 5.1/5.5/6.0
Indicators	LED Indicators	1 - Link/Activity
		1 - 10G/1G Speed
Environmental	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)
Physical Characteristics	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]
Packaging Information	Shipping (Package) Weight	0.4 lb [0.2 kg]
What's in the Box	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.