

1-Port PCIe 10GBase-T / NBASE-T Ethernet Network Card

Product ID: ST10GSPEXNB



This 5-speed network adapter card offers versatile and cost-efficient network connectivity. It 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.

Designed for low-power, single-port network applications, the PCIe NIC offers a cost-effective and versatile networking solution by providing additional bandwidth to meet your network needs, without having to overhaul your infrastructure wiring. Fully compliant with 10GBase-T and NBASE-T specifications, the network card lets you add an Ethernet port to your server or high-powered workstation through a PCI Express x4 (or higher) slot. (10G network speeds require Cat6a cable. All other speeds require Cat5e cable.)

The network controller card features advanced NBASE-T technology, supporting the latest multi-gigabit, 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.

NBASE-T technology accelerates the speed of twisted pair Cat5e copper cabling over a distance of up to 100 meters. The Ethernet network card also supports the more common 10G over copper, and 1G network connections using existing Cat 6/Cat5e or better cabling.

The 5-speed Ethernet network card is a powerful combination of the Tehuti TN4010 controller and the Marvell 88X3310P transceiver, providing low-power and high-performance NBASE-T solutions. The Tehuti 10GbE controller supports autonegotiation, which ensures the optimal speed over Cat5e/Cat6 is selected: 10GbE, 5GbE, 2.5GbE, GbE or 100Mbps (Fast Ethernet). The network card also offers compatibility with Microsoft Hyper-V virtualization software and iSCSI support to combine LAN and SAN functions.

The Tehuti TN4010 chipset, compliant with 802.3az Energy Efficient Ethernet, ensures peak operating efficiency with reduced power consumption. The decreased power consumption helps to minimize heat generated by the card, to avoid increasing the operating temperature within your server case.

The network card also supports advanced features including 9K Jumbo Frames and 802.1q VLAN tagging. For additional versatility, the controller card is equipped with a standard profile bracket and includes a low-profile/half-height bracket for installation in small form-factor computers.

The ST10GSPEXNB is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

Applications

- A cost-effective way to add an Ethernet port to your server or desktop computer, with 5-speed network access
- The controller card utilizes advanced NBASE-T technology, enabling multigigabit connections over your existing Cat5e cabling
- Supports the latest multigigabit technology including new Cisco campus switches and Aruba Networks access points

Features

- Cost-effective and versatile Ethernet connectivity supporting five network speeds: 10G, 5G, 2.5G 1G and 100Mbps
- Compliant with 10GBase-T and NBASE-T specifications
- IEEE 802.3az compliant energy-efficient chipset
- Virtualization (Microsoft Hyper-V) and iSCSI support
- PCIe 2.0 x4 interface
- Supports 2.5 and 5Gbps network speeds on Cat5e cabling, and 10Gbps on Cat6a
- Up to 9K jumbo frame support
- Supports 802.1q VLAN Tagging
- Full-duplex support
- Supports Auto-MDIX
- Supports Checksum Offload (IP, TCP, UDP) and Large Send Offload
- Configured with a standard profile bracket, includes a low profile/half-height bracket

Hardware

Warranty	2 Years
Ports	1
Interface	RJ45 (10 Gigabit Ethernet)

Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Industry Standards	IEEE 802.3an (10GBASE-T) IEEE 802.3ab (1000Base-T) IEEE 802.3u (100BASE-T) IEEE 802.3ad (Link Aggregation) IEEE 802.1q (VLAN tagging) PCI Express Rev 2.0
Chipset ID	Tehuti - TN4010 Marvell - 88X3310P

Performance

Maximum Data Transfer Rate	10 Gbps
Compatible Networks	10 Gbps/5G/2.5G/1G/100 Mbps
Auto MDIX	Yes
PXE	No
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 x4
External Ports	RJ-45

Software

OS Compatibility	Windows 7, 8, 8.1, 10 Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019 Mac OS 10.12 to 10.14 Linux 3.x to 4.14 <i>LTS Versions only</i>
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VMWare ESXi 5.0/5.1/6.0/6.5

Special Notes / Requirements

System and Cable Requirements	Available PCI Express x4 slot
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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

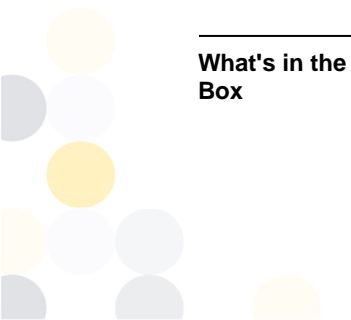
Physical Characteristics

Color	Black
Material	Steel
Product Length	3.3 in [83 mm]
Product Width	4.7 in [12 cm]
Product Height	0.8 in [21 mm]
Weight of Product	1.9 oz [54 g]

Packaging Information

Package Length	5.7 in [14.4 cm]
Package Width	6.8 in [17.2 cm]
Package Height	1.2 in [30 mm]
Shipping (Package) Weight	5.3 oz [150 g]

What's in the Box



Included in Package	1 Port PCIe 5-speed Ethernet network card
	driver CD
	low profile mounting bracket
	instruction manual

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

