

## 5G PCIe Network Adapter Card - NBASE-T & 5GBASE-T 2.5BASE-T PCI Express Network Interface Adapter - 5GbE/2.5GbE/1GbE Multi Gigabit Ethernet Workstation NIC - 4 Speed LAN Card

**Product ID:** ST5GPEXNB



This 4-speed NBASE-T PCIe network card offers an inexpensive network upgrade solution, providing access to your network at multiple speeds up to 5G, using your existing Cat5e copper cabling.

Fully compliant with 2.5GBASE-T, 5GBASE-T, and NBASE-T (Draft IEEE802.3bz) specifications, the PCIe NIC offers a cost-effective and versatile networking solution. It provides additional bandwidth at multiple speeds, to meet your network needs without the expense of overhauling your existing cable infrastructure.

The featured NBASE-T technology and multi-gigabit speeds support Cisco campus switches, including Catalyst 4500E, 3850 and 3560-CX. The Marvell 88E2010 chipset is optimized for achieving 2.5 and 5G rates over your existing Cat5e copper cable setup without upgrading to the more expensive Cat6A cabling required for 10Gbps speeds.

The Tehuti Networks TN4010 chipset, compliant with IEEE 802.3az, ensures peak operating efficiency with reduced power consumption. The network card also supports 9K jumbo frames, 802.1q VLAN tagging and is backward compatible with 1000BASE-T. For additional versatility, the controller card is equipped with a standard-profile bracket and includes a low-profile bracket for installation in small form-factor computers.

The ST5GPEXNB is backed by a StarTech.com 2-year warranty.

### Certifications, Reports and Compatibility

#### Applications

- Ideal for enterprise, gaming and home networks that require rates beyond 1Gbps using existing cabling
- Designed for low-power, low-cost single port network applications that require more than Gigabit speeds

- Great for supporting multi-gigabit technology such as Cisco campus switches, including Catalyst 4500E, 3850 and 3560-CX
- Ideal for administrative and academic buildings such as university libraries, student centers and residence halls

## Features

- **1 PORT 5GbE NETWORK CARD:** Single port 5Gbps PCIe Network Adapter Card provides 5x speed of standard Gigabit Ethernet to desktop/server leveraging existing infrastructure of Cat5e, CAT6, or CAT6a cable
- **TECH SPECS:** 5 Gbps Multi-Gigabit 1x RJ45 5 / 2.5 / 1 Gbps Tehuti - TN4010 NBASE-T & 5GBASE-T PCIe 2.0 x4 9K Jumbo Frame VLAN Link Aggregation IEEE 802.3az Full & Low Profile
- **WIDE HYPERVISOR & OS COMPATIBILITY:** Windows 7, 8, 8.1, 10; Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019; Linux kernels 3.x + (LTS versions); MacOS (10.12 to 10.14); VMWare ESXi 5.0, 5.1+
- **MULTI-GIGABIT CONNECTIVITY:** 4-Speed Workstation NIC auto negotiates based on network configuration: 5G, 2.5G, 1G, 100Mbps; supports auto-MDIX, Wake-on-LAN (WoL), link aggregation, & VLAN tagging
- **THE STARTECH.COM ADVANTAGE:** StarTech.com offers a 2-year warranty and free lifetime 24/5 multilingual technical support based in North America on this PCI Express Network Interface Card

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### Hardware

Warranty	2 Years
Ports	1
Interface	RJ45 (Gigabit Ethernet)
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Industry Standards	IEEE 802.3bz (NBase-T) IEEE 802.3ab (1000Base-T) IEEE 802.3u (10BASE-TX) IEEE 802.3ad (Link Aggregation) IEEE 802.1q (VLAN tagging) PCI Express Rev 2.0
Chipset ID	Tehuti - TN4010 Marvell - 88E2010P

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### Performance

Maximum Data Transfer Rate	5 Gbps
Compatible Networks	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)

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#### Connector(s)

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

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#### Software

OS Compatibility	Windows 7, 8, 10  Windows Server 2008 R2 Windows Server 2012 R2 Windows Server 2016 Windows Server 2019 Mac OS 10.12 to 10.14  Linux 2.6.32 - 4.x LTS versions only
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#### Indicators

LED Indicators	Link speed  Link/Activity
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#### Environmental

Operating Temperature	0C to 70C (32F to 158F)
Storage Temperature	-40C to 85C (-40F to 185F)
Humidity	10% ~ 90% RH

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#### Physical Characteristics

Color	Black
Material	Steel
Product Length	3.1 in [80 mm]
Product Width	4.7 in [12 cm]
Product Height	0.8 in [20 mm]
Weight of Product	4.9 oz [138 g]

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#### Packaging



## Information

Package Length	6.7 in [17 cm]
Package Width	5.6 in [14.2 cm]
Package Height	1.2 in [30 mm]
Shipping (Package) Weight	1.9 oz [55 g]

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## What's in the Box

Included in Package	network card
	low-profile mounting bracket
	driver CD
	instruction manual

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

