

2.5Gbps 2.5GBASE-T PCIe Network Card

Product ID: ST2GPEX



This single-port 2.5Gbps PCIe network card offers a versatile and low-cost way to deploy 2.5GbE network connectivity. It adds one copper Ethernet port to your server or desktop computer and provides Multi-Gigabit Ethernet access to your network at four speeds: 2.5 Gbps, 1G, 100Mbps, 10Mbps.

The 2.5GBASE-T NIC provides additional bandwidth using your existing Ethernet infrastructure to help reduce the cost of cabling upgrades. The card enables you to connect to 2.5GBASE-T and NBASE-T equipment at network speeds of 10Mbps, 100Mbps, 1Gbps, 2.5Gbps over your CAT5e cabling (up to 100 m depending on the network configuration).

The network adapter card adds one Ethernet port to your workstation through a x1 PCIe slot. It features 2.5GBASE-T technology, supporting advanced Multi-Gigabit systems, including Cisco campus switches and Aruba Networks access points. The network card also supports NBASE-T and additional features including 16K Jumbo Frames, Auto-MDIX and Wake-on-LAN (WoL).

The Realtek RTL8125 chipset, compliant with IEEE 802.3az and IEEE802.3u supports the PCIe 2.0 interface for PC embedded applications. It provides up to a 250% increase in data rate over Gigabit Ethernet and requires no changes to existing cable infrastructure.

The ST2GPEX is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility





Applications

Features

- Multi-Gigabit Ethernet connectivity with four network speeds: 2.5G, 1G, 100Mbps, 10Mbps
- Compatible with both 2.5GBASE-T and NBASE-T specifications
- Supports 2.5Gbps network speeds on CAT5e cabling and CAT6a
- IEEE 802.3az and IEEE802.3u compliant energy efficient Realtek RTL8125 chipset
- Flexible installation with both standard and low-profile brackets included

Hardware

Warranty	2 Years
Ports	1
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Industry Standards	IEEE 802.3bz (2.5GBASE-T)
	IEEE 802.3ab (1000BASE-T)
	IEEE 802.3u (100BASE-TX)
	IEEE 802.3i (10BASE-TX)
Chipset ID	Realtek RTL8125B

Performance

Wake On Lan	Yes
Compatible Networks	2.5G/1G/100Mbps/10Mbps
Auto MDIX	Yes
PXE	Yes

Full Duplex Support	Yes
Jumbo Frame Support	16K max.
Supported Protocols	IEEE 802.1q (VLAN tagging)

Connector(s)

Connector Type(s)	1 - PCI Express x1
External Ports	1 - RJ-45

Software

OS Compatibility	Windows 11, Windows 10, Windows 8, Windows 7, Windows Server 2016, 2019, 2022, Windows Server 2012 R2, Windows Server 2008 R2, Linux Kernel 2.4.20 and up - LTS Versions only
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Indicators

LED Indicators	1 - Green LED: 2.5Gbps 1 - Green LED: 1Gbps/100Mbps/10Mbps
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Power

Input Voltage	12V DC
Output Voltage	12V DC

Environmental

Operating Temperature	5C to 50C
Storage Temperature	-20C to 60C
Humidity	20% ~ 80% RH

Physical Characteristics

Color	Black
Material	Steel
Product Length	3.1 in [80.0 mm]
Product Width	4.7 in [12.0 cm]
Product Height	0.8 in [2.0 cm]
Weight of Product	1.3 oz [37 g]

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