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 RTL8125

Performance

	Compatible Networks	2.5G/1G/100Mbps/10Mbps
	Auto MDIX	Yes
	PXE	Yes
	Full Duplex Support	Yes

	Jumbo Frame Support	16K max.

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 - <i>LTS Versions only</i>

Indicators

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

Power

	Input 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	4.9 oz [138.0 g]

Packaging Information

	Package Quantity	1
	Package Length	5.6 in [14.2 cm]

Package Width	6.7 in [17.0 cm]	
Package Height	1.2 in [30.0 mm]	
Shipping (Package) Weight	2.1 oz [60.0 g]	

What's in the Box

Included in Package	1 - Network Card	
	1 - Low-Profile Bracket	
	1 - Quick-Start Guide	

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