

1 Port 2.5Gbps PoE Network Card, PCIe Ethernet Card w/RJ45, 30W 802.3at PoE NIC for Desktops/Servers, Network PoE LAN Adapter w/Low-Profile Bracket, NBaseT, Windows/Linux

**Product ID:** ST1000PEXPSE



The Power over Ethernet PCIe network card enables multigigabit speeds of 2.5/1Gbps and 100/10Mbps. This PoE LAN adapter can provide up to 25.5 W of power to a connected device. It combines a network data connection and power over a single Cat5e (or better) Ethernet cable. This PoE NIC is the ideal solution to provide both power and network communication to a remote installation.

The PCIe Ethernet card supports the IEEE 802.3af and IEEE 802.3at (Type 1 and Type 2) standards for Power Sourcing Equipment (PSE) and can deliver up to 48 V DC and 25.5 W of power to compliant Powered Devices (PD). This flexibility eliminates the need for a separate power source for remote networked devices such as IP cameras, access control devices, remote kiosks, and wireless access points.

The network interface card connects to an available x1 PCIe 2.1 (or higher) expansion slot. The card is shipped with a standard-profile bracket. It includes a low-profile bracket for installation in various computer chassis. Access up to 2.5 Gbps (NBASE-T) speeds using Cat5e cabling to utilize existing networks and equipment.

Take advantage of advanced features such as Audio-Video Bridging (AVB) for transmitting real-time content over Ethernet, VLAN tagging, 16K jumbo frame, full-duplex, and PXE.

This product is backed for 2 years, including free lifetime 24/5 multi-lingual technical assistance.

## Certifications, Reports and Compatibility





## Applications

- Connect Power over Ethernet enabled IP cameras, phones, or Wireless Access Points
- Provide power to remote powered devices that require a PoE power source

## Features

- **2.5G NETWORK CARD WITH POE:** This PCI Express x1 Network Card enables 2.5Gbps network speeds and supplies (PSE) 30W PoE over a single CAT5e (or later) cable - Leverage existing copper cabling without the use of a Power over Ethernet (PoE) injector
- **POE+ COMPLIANT:** Card provides up to 30W PSE and 25.5W PD at 48V DC to a connected device - Supports IEEE 802.3af (PoE) and 802.3at (PoE+) to power remote devices such as access points, RFID readers, and IP cameras
- **MULTI-GIGABIT CONNECTIVITY:** The Network PoE Card features 2.5GBASE-T (802.3bz) and will auto negotiate to the connected device's highest possible speed - The PCIe Network Card supports Wake-on-LAN and RealWoW for remote wake up of the host computer
- **TECH SPECS:** 2.5Gbps/1Gbps/100Mbps/10Mbps - NBASE-T - 1x RJ45 Port - Realtek RTL8125B - IEEE 802.3af/at - 802.3az EEE - PCIe 2.1 x1 - SATA & SP4 Power Connectors - Link/PoE LED Indicators - 16K Jumbo Frame - VLAN - PXE Boot - Full and Low-Profile Brackets
- **VERSATILE POE NETWORK CARD:** The PCIe Ethernet Adapter supports Windows and Linux - Variable speed options and includes a low-profile bracket for Small Form Factor (SFF) systems ensures compatibility of the PoE NIC with current and legacy devices

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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.)
Port Style	Integrated on Card
Industry Standards	IEEE802.3at Power over Ethernet (25 W)  IEEE802.3af Power over Ethernet (15 W)  IEEE 802.3bz (2.5GBASE-T)  IEEE 802.3ab (1000BASE-T)  IEEE 802.3u

(100BASE-TX ) <br/>IEEE 802.3i (10BASE-T) <br/>IEEE P802.3az Energy Efficient Ethernet (EEE) <br/>IEEE802.1Q (VLAN tagging) <br/>Wake-on-LAN (WOL) <br/>PCI Express Version 2.1

Chipset ID Realtek - RTL8125B

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**Performance**

Maximum Data Transfer Rate	2500 Mbps
Maximum Cable Length	328.0 ft [100 m]
Flow Control	Yes
Compatible Networks	2.5G/1G/100Mbps/10Mbps
Auto MDIX	Yes
PXE	Yes
Full Duplex Support	Yes
Jumbo Frame Support	16K max.

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**Connector(s)**

Connector Type(s)	1 - PCI Express x1
Connector A	1 - RJ-45 (PoE+)
Internal Ports	1 - 4 pin Small Power (SP4, Floppy) Male 1 - SATA Power (15 pin)

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**Software**

OS Compatibility	Windows 11, Windows 10, Windows 8.1, Windows 7, Windows Server 2019, Windows Server 2012 R2, Windows Server 2008 R2, Linux Kernel 2.4.20 and up - <i>LTS Versions only</i>
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**Indicators**

LED Indicators	1 - PoE LED: Green when supplying power  1 - 2.5G <1G LED: , 2.5 Gbps Amber , 1 Gbps /100 Mbps/10 Mbps Green
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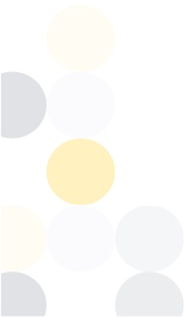
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**Power**

Output Voltage	48 DC
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**Environmental**



Operating Temperature	0C to 55C (32F to 131F)
Storage Temperature	-40C to 70C (-40F to 158F)
Humidity	5% ~ 95% RH

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**Physical Characteristics**

Product Length	3.7 in [9.5 cm]
Product Width	2.5 in [6.3 cm]
Product Height	0.6 in [1.5 cm]
Weight of Product	7.8 oz [220.0 g]

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**Packaging Information**

Package Quantity	1
Package Length	5.7 in [14.4 cm]
Package Width	8.1 in [20.7 cm]
Package Height	1.5 in [3.8 cm]
Shipping (Package) Weight	7.8 oz [220.0 g]

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**What's in the Box**

Included in Package	1 - Network Card
	1 - Low-profile Bracket
	1 - Quick-start Guide

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

