

## Dual Port PCI Express Gigabit Ethernet PCIe Network Card Adapter - PoE/PSE

**Product ID:** ST2000PEXPSE



The ST2000PEXPSE Dual Port PoE NIC provides two 10/100/1000 Mbps PoE RJ45 ports that can provide up to 25.5W of power each, combining a network data connection and power on a single cable, for less clutter and convenient installations in remote locations.

This full/low profile Gigabit server adapter supports the IEEE 802.3at (Type 1 and 2) standard for a Power Sourcing Equipment (PSE) device, and can deliver 48V DC power to compliant Powered Devices (PD). This eliminates the need for a separate power source and cable for remote networked devices such as IP cameras, IP phones and wireless access points.

Suitable for any PCI Express-enabled client, server or workstation, this versatile PoE network adapter supports features such as Jumbo Frames, VLAN tagging and Wake on LAN (WOL).

The ST2000PEXPSE PoE NIC is backed by a StarTech.com 2-year warranty and free lifetime technical support.

### Certifications, Reports and Compatibility



### Applications

- Provide power to PoE powered devices, where they have no access to a power source

- Add 2 Ethernet ports to a workstation or server computer from a single PCIe slot
- Connect to 2 separate networks simultaneously
- Install dual networking capabilities into a small form factor or other space-constrained computer system
- Connecting Power over Ethernet-enabled IP cameras, IP phones or Wireless Access Points

## Features

- Dual 10/100/1000 Mbps PoE RJ45 ports
- Supports IEEE 802.3at (Type 1, 2) Power over Ethernet standard
- Power Sourcing Equipment (PSE) design, provides data and up to 25.5W of power on each port
- Built-in SATA and LP4 Molex power connector
- Unique surge protection design helps prevent system damage in the event of lightning strikes
- Jumbo Frame support
- On-chip 48 KB Big Transmit/Receive Buffer Support
- Fully Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, and supports IEEE 802.1Q VLAN tagging, IEEE 802.1P Layer 2 Priority Encoding and IEEE 802.3x Full Duplex Flow Control
- Crossover Detection & Auto-Correction (Auto MDIX)
- Includes full and low profile/half-height installation brackets

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## Hardware

Warranty	2 Years
Ports	2
Interface	RJ45 (Gigabit Ethernet)
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Port Style	Integrated on Card
Industry Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3at
	PCI Express Rev 2.0
Chipset ID	Realtek - RTL8111G

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**Performance**

Maximum Data Transfer Rate	1000 Mbps (uni-directional), 2000 Mbps (bi-directional)
Buffer Size	48 KB
Compatible Networks	10/100/1000 Mbps
Auto MDIX	Yes
Full Duplex Support	Yes
MTBF	140,981 hours

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**Connector(s)**

Connector Type(s)	1 - PCI Express x1
Internal Ports	1 - LP4 (4 pin; Large Drive Power) 1 - SATA Power (15 pin)
External Ports	2 - RJ-45

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**Software**

OS Compatibility	Windows 2000, XP, Vista, 7, 8, 8.1, 10, 11  Windows Server 2003, 2008 R2, 2012, 2012 R2, 2016, 2019, 2022  Mac OS X 10.6 to 10.9, Linux 2.4.x and up - <i>LTS Versions only</i>
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**Special Notes / Requirements**

Patents and Licenses	The following patents are licensed for this product. This list might not be all inclusive.  <ul style="list-style-type: none"> <li>• United States Patent No. 5,406,260 (expired)</li> <li>• United States Patent No. 6,650,622</li> <li>• United States Patent No. 7,457,250</li> <li>• United States Patent No. 8,155,012</li> <li>• United States Patent No. 8,902,760</li> <li>• United States Patent No. 8,942,107</li> <li>• United States Patent No. 9,019,838</li> <li>• United States Patent No. 9,049,019</li> </ul>
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- United States Patent Application No. 14/695,456

- United States Patent Application No. 14/726,940

System and Cable Requirements

Available full/low profile PCI Express expansion slot

Available LP4 Molex or SATA power connector

**Indicators**

LED Indicators	2 - PoE Active (yellow)
	2 - Link/ Activity (green)

**Power**

Output Voltage	48 DC
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**Environmental**

Operating Temperature	0C to 55C (32F to 131F)
Storage Temperature	-20C to 85C (-4F to 185F)
Humidity	5% ~ 95% RH

**Physical Characteristics**

Color	Yellow
Product Length	7.7 in [19.5 cm]
Product Width	0.7 in [1.9 cm]
Product Height	2.7 in [6.8 cm]
Weight of Product	3.7 oz [104.0 g]

**Packaging Information**

Package Quantity	1
Package Length	9.0 in [22.8 cm]
Package Width	6.4 in [16.2 cm]
Package Height	1.7 in [4.4 cm]
Shipping (Package) Weight	9.0 oz [254.0 g]

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**What's in the Box**

Included in Package	1 - PCI Express Network Card
	1 - Low Profile Bracket
	1 - Instruction Manual

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