

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

**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**

|                            |   |
|----------------------------|---|
| Wake On Lan                | Yes   |
| 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 - LTS Versions only |

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**Special Notes / Requirements**

|                      |  |
|----------------------|--|
| Patents and Licenses | <p>The following patents are licensed for this product. This list might not be all inclusive.</p> <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> </ul> |
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- United States Patent No. 9,049,019
- 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)<br>2 - Link/ Activity (green) |
|----------------|---|

**Power**

|                |       |
|----------------|-------|
| Output Voltage | 48 DC |
|----------------|-------|

**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 [22.9 cm] |
| Package Width    | 6.5 in [16.4 cm] |
| Package Height   | 1.7 in [4.4 cm]  |

Shipping (Package) 8.3 oz [236.0 g]  
Weight

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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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**Warranty  
Information**

|          |         |
|----------|---------|
| Warranty | 2 Years |
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*\*Product appearance and specifications are subject to change without notice.*

