4 Port Gigabit Power over Ethernet PCIe Network Card - PSE / PoE PCI Express NIC

Product ID: ST4000PEXPSE

The ST4000PEXPSE 4-Port PoE NIC lets you add four Gigabit Power over Ethernet ports through a single PCI Express slot. Each port can provide up to 25.5W of power, combining network data and power over a single Ethernet cable for reduced cable clutter and added convenience for remote PoE devices.

The PCI express PoE card supports the IEEE 802.3at (Type 1 and 2) standard for Power Sourcing Equipment (PSE), and can deliver up to 48V DC power to compliant Powered Devices (PD). This eliminates the need for a separate power source and data connection for PoE devices such as IP cameras, IP phones or wireless access points.

Suitable for any standard profile PCIe-enabled client, server or workstation, the PoE network card supports features such as Jumbo Frames (up to 9KB), VLAN tagging and Wake on LAN (WoL).

Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

Applications

• Create a host computer for networked security cameras situated in remote areas, where standard power connection is not possible

• Install PoE-powered Wireless Access Points (WAP) or repeaters in industrial, warehousing or business environments

• Enable remote installation of touchscreens or information kiosks

Features

• Four 10/100/1000 Mbps compatible PoE RJ45 ports

• Fully compliant with IEEE 802.3at (Type 1 & 2) Power over Ethernet standards

• Power Sourcing Equipment (PSE) supports up to 48V, 25.5 Watts max. output per port

• Built-in SATA and LP4 Molex power connector

• Up to 9K Jumbo Frame support

• Wake-on-LAN (Remote Wake-up) support

• Supports Pair Swap, Polarity and Skew Correction

Hardware

Warranty	2 Years
Ports	4
Interface	RJ45 (Gigabit Ethernet)
Bus Type	PCI Express
Card Type	Standard Profile
Port Style	Integrated on Card
Industry Standards	IEEE 802.3at, 802.3af, 802.3, 802.3u, 802.3ab, 802.3az Draft 2.2 Energy-Efficient Ethernet (EEE), 802.1q VLAN tagging, 802.1p Layer 2 Priority Encoding and 802.3x Full Duplex Flow Control
Chipset ID	Realtek - RTL8111E

Performance

Maximum Data Transfer Rate	2000 Mbps (Full-duplex)
Buffer Size	48 KB
Compatible Networks	10/100/1000 Mbps
Auto MDIX	Yes
Full Duplex Support	Yes
Jumbo Frame Support	9K max.
Promiscuous Mode	Yes

Connector(s)

Connector Type(s)	PCI Express x4
Internal Ports	LP4 (4 pin; Large Drive Power)
	SATA Power (15 pin)
External Ports	RJ-45

Software

OS Compatibility	Windows 2000, XP, Vista, 7, 8, 8.1, 10
	Windows Server 2003, 2008 R2, 2012, 2012 R2, 2016, 2019
	Linux 2.4.x to 4.11.x <i>LTS Versions Only</i>

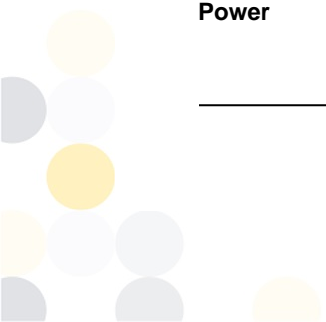## Special Notes / Requirements

Patents and Licenses	The following patents are licensed for this product. This list might not be all inclusive.
	• United States Patent No. 5,406,260 (expired)
	•United States Patent No. 6,650,622
	•United States Patent No. 7,457,250
	•United States Patent No. 8,155,012
	•United States Patent No. 8,902,760
	•United States Patent No. 8,942,107
	•United States Patent No. 9,019,838
	•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 height (standard profile) PCI Express expansion slot
	Available LP4 Molex or SATA power connector

Indicators

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

Power

Output Voltage	48 DC

Environmental

Operating Temperature	0C to 55C (32F to 131F)
Storage Temperature	-40C to 75C (-40F to 158F)
Humidity	10~90% RH (Non-condensing)

Physical Characteristics

Material	Steel
Product Length	9.6 in [24.3 cm]
Product Width	0.7 in [18.0 mm]
Product Height	4.7 in [12.0 cm]
Weight of Product	3.6 oz [102.0 g]

Packaging Information

Package Length	11.7 in [29.6 cm]
Package Width	7.4 in [18.8 cm]
Package Height	2.6 in [66.0 mm]
Shipping (Package) Weight	15.1 oz [428.0 g]

What's in the Box

Included in Package	PCI Express Network Card
	Driver CD
	Instruction Manual

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