

# PCIe-PoE2+/PCIe-PoE4+

## 2-Port/4-Port x4 PCI-E Gigabit Power over Ethernet Frame Grabber Card



### Features

- x4 PCI Express® interface to support a total bandwidth of 1GB/s
- Supports four (PoE4+) or two (PoE2+) independent GigE Ports
- Compliant with IEEE 802.3af to deliver 15.4 W each port
- Supports 9 kB jumbo frame and link aggregation
- No external 12 VDC input needed for PCIe-PoE2+

### Introduction

Neousys PCIe-PoE2+ and PCIe-PoE4+ are x4 PCI Express GigE frame grabber cards with PoE capability. PoE, or Power over Ethernet, is a technology to supply electrical power along with data over a standard Ethernet cable. PCIe-PoE2+ offers two PoE ports and PCIe-PoE4+ offers four PoE ports via independent Intel® 82574L Gigabit Ethernet controllers.

PCIe-PoE2+ and PCIe-PoE4+ are dedicatedly designed for PoE cameras. Each port can deliver 15.4 W of power and 1000 Mb/s bandwidth over a CAT-5/CAT-6 cable of up to 100 meters. It features 9 kB jumbo frame and link aggregation, which conduct exceptional performance for continuously receiving large amount of image data. And for your convenience, we design PCIe-PoE2+ with the capability of directly drawing power from PCI-E bus so no external 12 VDC is needed.

The PoE technology significantly reduces the installation and maintenance cost by eliminating the power wire. Combining PoE and the Gigabit bandwidth, PCIe-PoE2+ and PCIe-PoE4+ are the perfect fit for your vision application!

### Applications



1. Machine vision & AOI
2. Surveillance / Security
3. Medical Imaging
4. Automated Traffic Enforcement

### Specifications

| Model                 | PCIe-PoE2+   | PCIe-PoE4+  |
|-----------------------|--|---|
| Bus Interface         | x4 PCI Express   |   |
| Gigabit Ethernet Port | 2x Gigabit Ethernet ports by Intel® 82574L controllers, supporting 9 kB jumbo frame & link aggregation (teaming) | 4x Gigabit Ethernet ports by Intel® 82574L controllers, supporting 9 kB jumbo frame & link aggregation (teaming)    |
| PoE Capability        | IEEE 802.3af compliant, each port delivers up to 15.4W   |   |
| Cable Requirement     | CAT-5e or CAT-6 cable, 100 meters maxima   |   |
| Power Requirement     | Maximal 1.6A @ 3.3V from PCI Express bus<br>Maximal 2.8A @ 12V directly from PCI Express bus*                    | Maximal 2.4A @ 3.3V from PCI Express bus<br>Maximal 5.6A @ 12V from external power plug via 4-pin power connector** |
| Operating Temperature | 0°C ~ 60°C with air flow   |   |
| Dimension             | 167.7 mm (W) x 111.2 mm (H)  |   |

\* PCIe-PoE2+ is designed to directly draw 12V power for PoE devices from PCI Express bus. No external 12 VDC input is needed.

\*\* PCIe-PoE4+ is designed to obtain additional 12V power for PoE devices from its on-board 4-pin power connector.

### Order Information

#### PCIe-PoE2+

2-Port x4 PCI-E Gigabit Power over Ethernet Frame Grabber Card

#### PCIe-PoE4+

4-Port x4 PCI-E Gigabit Power over Ethernet Frame Grabber Card