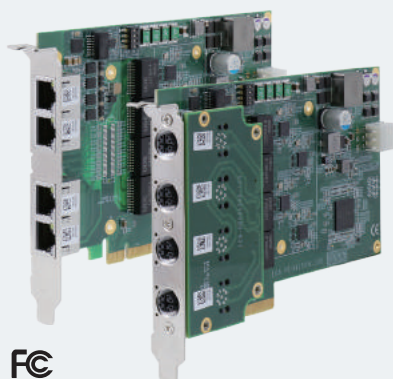


# PCIe-PoE425 Series

4-port 2.5GBASE-T Network Adapter with IEEE 802.3bt PoE++ Capability



CE FC

## Key Features

- Compliant with IEEE 802.3bt PoE++ PSE, provides up to 90W on a single port
- 4x IEEE 802.3bz 2.5GBASE-T Ethernet ports by Intel® I225-IT controller
- Supports 2.5G/ 1G/ 100M/ 10M link speed
- Available in RJ-45 (PCIe-PoE425bt) and M12 (PCIe-PoE425M) connectors
- x4, Gen2 PCI Express interface
- Supports 9.5 kB jumbo frame, teaming and IEEE 1588
- Per-port PoE+ power on/ off control by software API

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## Introduction

Introducing one of the world's first 2.5G Ethernet card featuring IEEE 802.3bt PoE++ PSE capability! The PCIe-PoE425 series is a 4-port 2.5GBASE-T PoE++ card leveraging the cutting-edge Intel® I225 controller. It complies with IEEE 802bz standard to provide 2.5 Gbps bandwidth and is backward-compatible with 1000BASE-T, 100BASE-TX, and 10BASE-TE Ethernet.

In addition to the increase in bandwidth, the PCIe-PoE425 series also features IEEE 802.3bt PSE capability. IEEE 802.3bt, or PoE++, is the latest addition to Power over Ethernet specifications, allowing a single port to provide up to 90W of power supplied to PD over a standard CAT-5e or CAT-6 Ethernet cable. While COTS high PoE PTZ cameras and outdoor WIFI access points may require higher power than 30W, the PCIe-PoE425 series is particularly useful for directly connecting and powering these devices without an external PoE++ injector.

PCIe-PoE425 series is available in two connector options. The PCIe-PoE425bt has four RJ-45 connectors for use with generic Ethernet cables while the PCIe-PoE425M offers four M12 x-coded connectors for a more rugged and reliable cable connection. By incorporating 2.5GBASE-T and PoE++ technologies, the PCIe-PoE425 series is the ideal choice for machine vision and surveillance applications with advanced PoE devices, such as PTZ camera, high-performance WIFI access point and industrial NBASE-T camera.

## Specifications

	PCIe-PoE425bt	PCIe-PoE425M
Bus Interface	x4, Gen2 PCI Express	
# of 2.5G Port	4x 2.5G Ethernet ports by four Intel® I225-IT controllers, supporting 9.5 kB jumbo frame, teaming and IEEE 1588	
Network Interface	IEEE 802.3 Ethernet interface for 2500BASE-T (802.3bz), 1000BASE-T (802.3ab), 100BASE-TX (802.3u), and 10BASE-TE (802.3)	
PoE Capability	In compliant with IEEE 802.3bt PoE++ Type 3 and Type 4 PSE, maximal 90W output on a single PoE++ port Compatible with 802.3at (PoE+) and 802.3af (PoE) PD	
Ethernet Connector	4x RJ-45 connectors	4x M12 x-coded connectors
Cable Requirement	100 meters over CAT-5e or better Ethernet cable	
Power Requirement	Jumper-select 12VDC input Maximum 5.5A@12V (66W) from PCIe gold finger connector Maximum 12A@12V (144W) from on-board 6-pin PCIe power connector	
EMC	CE Class A, according to EN 55032/55035 FCC Class A, according to FCC Part 15, Subpart B	
Operating Temperature	0°C ~ 55°C with airflow	
Dimension	167.7mm (L) x 111.2mm (H) x 18.2mm (W)	167.7mm (L) x 111mm (H) x 19.7mm (W)*

\* \* PCIe-PoE425M is wider than the standard PCIe card and may cause mechanical interference with the card next to it. It is recommended to leave the slot on the right empty. If you must install another card on the right, please proceed with caution!

## Ordering Information

Model No.	Product Description
PCIe-PoE425bt	4-Port 2.5GbE 802.3bt PoE++ card with RJ45 connector
PCIe-PoE425M	4-Port 2.5GbE 802.3bt PoE++ card with M12 x-coded connector

## Optional Accessories

Cbl-M12X8M-RJ45-500CM	M12 (8-pole-X-coded) to RJ45, CAT6, Length : 500CM
Cbl-M12X8M-RJ45-1000CM	M12 (8-pole-X-coded) to RJ45, CAT6, Length : 1000CM