

# 4-Port 10/100/1000T 802.3at PoE+ PCI Express Server Adapter



## Flexible PoE Expansion Leverages Existing IPC/Server Environment

PLANET ENW-9740P is a **4-port 10/100/1000T 802.3at PoE+ PCI Express server adapter** with a maximum of up to 120 watts of power output over Ethernet cables. (95w is suggested, depending on usage.) Complied with PCI-E standard, the ENW-9740P can be installed on any IPC or server motherboard with PCI-E socket to make the IPC or server able to communicate other Ethernet devices and deliver power to PD devices.

Each port of the ENW-9740P can deliver 30W of power and 1000 Mb/s bandwidth over a networking cable of up to 100 meters. Its 30W PoE+ can now power not only PTZ (pan, tilt and zoom) cameras for surveillance applications but also 802.11ac AP for ultra-high-speed wireless application.



## Hassle-free Installation for PoE Deployment

PLANET ENW-9740P is backward compatible with both IEEE 802.3af/at PoE standards which allow users to flexibly deploy standard and high powered devices to transfer data and power simultaneously through one Ethernet cable for up to 100 meters.

With PoE application, the ENW-9740P frees the IP camera and wireless AP deployment from restrictions of power outlet locations and the additional AC wiring. It reduces cables and eliminates the need for electrical outlets on the wall, ceiling or any unreachable place, and most of all, it reduces installation time.



## Product Features

- Intel ® server-grade GbE Mac Controller
- PCI Express (PCIe) x4 slot
- Supports 4 Gigabit Ethernet MAC Controller
- IEEE 802.3at compliant with up to 30W power per port
- Supports 12V DC 4-pin Molex input
- Powered device (PD) auto detection and classification
- IEEE 802.1q VLAN ID tagged
- 9.5K jumbo frame size
- Complies with Microsoft, Linux and MAC platforms

*Standard 802.1Q VLAN Support*

The ENW-9740P supports IEEE 802.1q VLAN which allows it to operate in a flexible and secure network environment. With 9.5K jumbo frame ability and IEEE 802.3 flow control support, it further optimizes throughput and wire-speed packet transfer performance without the risk of packet loss. The high data throughput of the device makes it ideal for most Gigabit Ethernet environments.

*Multiple OS Support*

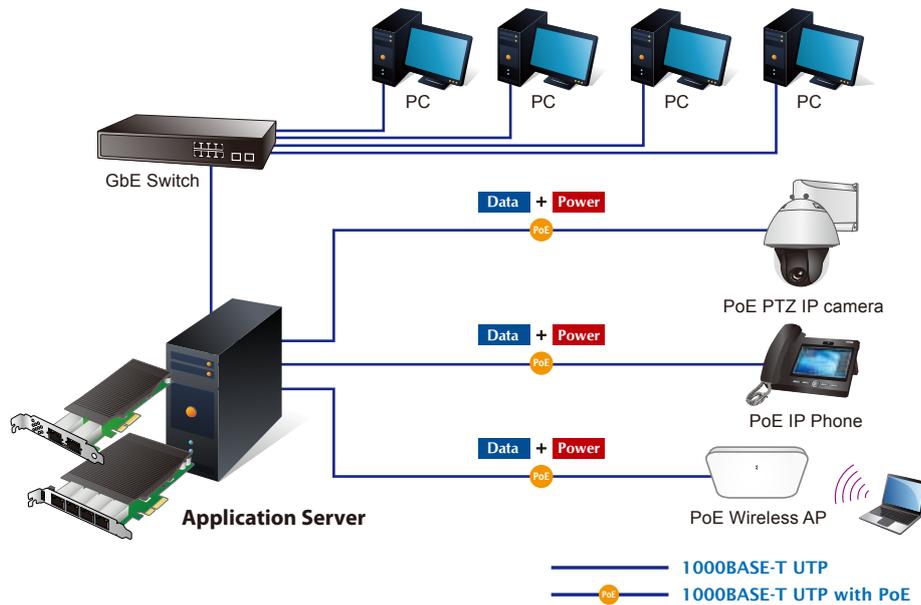
The ENW-9740P operates completely well with most of the popular and latest operating systems including Microsoft Windows Server, Linux and VMware, enabling simple integration into network designs. There is no need of any modification to the server's operating system or any special software required for the ENW-9740P to be integrated into the system.

## Applications

*Server-grade PoE NICs*

The PLANET ENW-9740P is designed with Intel® I350 server-grade GbE controller which provides high-performance, quad-port Gigabit network connectivity. It not only supports 9.5K jumbo frame and 802.11q VLAN to enable higher and better throughput of data but also enhances data acceleration across the platform (network, chipset and processor) to reduce CPU utilization. In addition, its single-bus, quad PoE ports capacity delivers up to 30W power per port.

The ENW-9740P can easily act as a server NICs of your networks by wiring to the backbone switches and is right for the main board with PCI Express now and in the future. The ENW-9740P is a highly cost-effective solution to deliver Power over Ethernet function to meet the requirement of the industrial field such as IP surveillance, IP phones and WLAN application.



## Product Specifications

Model	ENW-9740P
<b>Hardware Specification</b>	
Controller	Intel I350
Interface	4 x RJ45
LED Indicator	1000Mbps: LINK: Yellow, ACT: Green 10Mbps/100Mbps: ACT: Green
Data Rate	10/100/1000Mbps
Dimensions (W x D x H)	169 x 121 x 18 mm
Weight	251 g
PCIe Bus Type	PCI Express v2.1 (5.0GT/s) x4
Power Supply	PCIe power supply 3.3V±9% / 12V±8%
Typical Power Consumption	5 watts max
Single PoE Output	30 watts max
<b>Power over Ethernet</b>	
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	End-span
PoE Power Output	Per port up to 52V DC, max. 30 watts
Power Pin Assignment	1/2 (+), 3/6 (-)
PoE Power Budget	60W maximum with DC 12V over PCIe slot 120W* maximum with DC 12V over PCIe slot and 4 molex plug from power supply <b>*Note:</b> To have a power budget of 120W, it's recommended the operating temperature must be at 25°C, If operating temperature is over 25°C, the power budget will have to be under 95W.
Max. Number of Class 3 PDs	4
Max. Number of Class 4 PDs	4
<b>Advanced Functions</b>	
Layer 2 Features	IEEE 802.1Q VLAN support
Operating System Support	Windows Server 2008R2 64bits Windows Server 2012 64bits Windows Server 2016 64bits Windows 7 32/64bits Windows 8 32/64bits Windows 10 32/64bits Linux 2.6.x, Linux 4.x VMware® 6.0
<b>Standards Conformance</b>	
Standards Compliance	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.1Q VLANs IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus
Regulatory Compliance	FCC Part 15 Class B, CE
<b>Environment</b>	
Operating Temperature	-10 ~ 60 degrees C
Storage Temperature	-40 ~ 70 degrees C
Operating Humidity	5 ~ 90%, relative humidity, non-condensing
Storage Humidity	5 ~ 90%, relative humidity, non-condensing
<b>Standard Accessories</b>	
Package Contents	<ul style="list-style-type: none"> <li>■ ENW-9740P Server Adapter</li> <li>■ Quick Installation Guide</li> </ul>

## Ordering Information

ENW-9740P	4-Port 10/100/1000T 802.3at PoE+ PCI Express Server Adapter
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## Related PoE Products

ENW-9720P	2-Port 10/100/1000T 802.3at PoE+ PCI Express Server Adapter
POE-E202	1-Port 802.3at PoE+ to 2-Port 802.3af/at Gigabit PoE Extender
IPOE-E202	Industrial 1-Port 802.3at PoE+ to 2-Port 802.3af PoE Extender
POE-162S	IEEE 802.3at High Power over Ethernet Splitter (12V & 24V)
IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter
ICA-3250	1080p IR Bullet PoE IP Camera
ICA-E3550V	5 Mega-pixel Bullet IR PoE IP Camera with Extended Support
ICA-E5550V	5 Mega-pixel Vandalproof IR PoE IP Camera with Extended Support
WDAP-C7200E	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
WNAP-C3220E	300Mbps 802.11n Ceiling-mount Wireless Access Point

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ENW-9740P