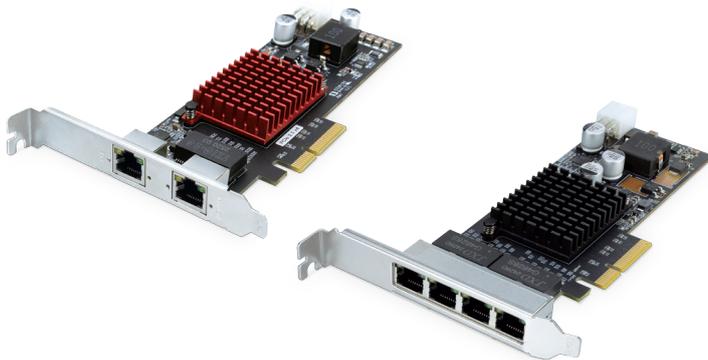


## 2/4-Port 10/100/1000T 802.3at PoE+ PCI Express Server Adapter



### Simple Plug and Play PoE Solution for IPC System

PLANET ENW-9720P is a **2-port 10/100/1000T 802.3at PoE+ PCI Express server adapter** with a maximum of up to **60 watts of power output** over Ethernet cables. 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. Incorporated with **Intel® I350** server-grade GbE Mac controller, the ENW-9720P/ENW-9740P provide superb performance to fulfill the requirements of **Industrial networks**. Compliant with **PCIe Express x4 interface (PCIe 2.1)**, the ENW-9720P/ENW-9740P can be easily installed into any IPC or server motherboard with a PCIe x4 slot, delivering reliable performance and compliance with industry standards.

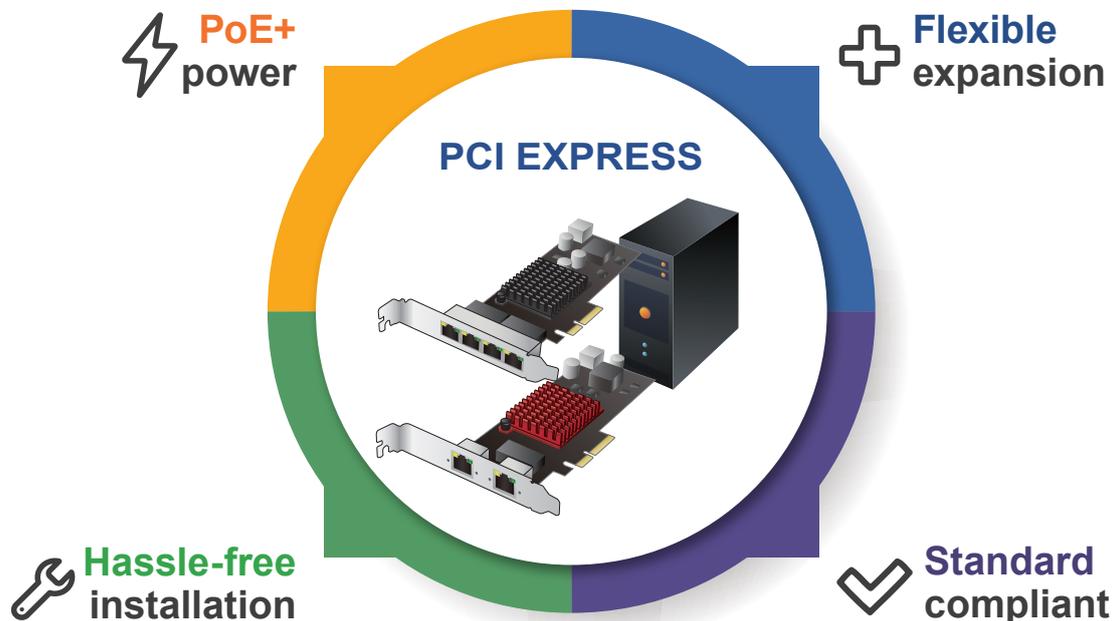
Each port of the ENW-9720P/ENW-9740P can deliver **30W** of power and **1Gbps bandwidth** over a networking cable of up to **100 meters**. Its PoE+ capability can power not only **PTZ (pan, tilt and zoom) surveillance cameras**, but also the latest **Wi-Fi 6/6E/7 wireless access points**, enabling ultra-high-speed wireless connectivity for modern enterprise networks.

### Hassle-free Installation for PoE Deployment

PLANET ENW-9720P/ENW-9740P are 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. In addition, the ENW-9720P and ENW-9740P are powered by the **PCIe bus power** and via a **12V Mini-Fit 6-Pin power** connector, providing greater flexibility in installation.

- Intel® server-grade GbE Mac Controller (Intel I350)
- PCI Express (PCIe) x4 interface, compliant with PCI Express 2.1 specification
- Supports 2 Gigabit Ethernet MAC Controller (ENW-9720P)
- Supports 4 Gigabit Ethernet MAC Controller (ENW-9740P)
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- PXE network boot support
- IEEE 802.3at compliant with up to 30W power per port, maximum 60W power budget (ENW-9720P)
- IEEE 802.3at compliant with up to 30W power per port, maximum 120W power budget (ENW-9740P)
- PCI Express 12V power supply and optional 12V Mini-Fit 6-Pin power connector input
- Powered device (PD) auto detection and classification
- IEEE 802.1Q VLAN tagging support
- 9.5K jumbo frame size
- Dual-profile design (low profile and full-height bracket)
- Compatible with Microsoft Windows® 7/8/8.1/10/11(64-bit) Windows Server® 2008 R2/2012 / 2012 R2/2016/2019/2022/2025 and Linux Kernel 2.6.x to 6.x(RHEL / SLES supported, igb driver)

With PoE technology, the ENW-9720P/ENW-9740P free IP cameras and wireless APs from power outlet and extra wiring limitations, reducing cabling, simplifying installation, and significantly saving deployment time.



#### Standard 802.1Q VLAN and Jumbo Frame Support

The ENW-9720P/ENW-9740P supports **IEEE 802.1Q VLAN and 9.5K jumbo** frame which allow it to operate in a flexible and secure network environment. With 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-9720P/ENW-9740P operates completely well with most of the popular and latest operating systems including Microsoft Windows® 7/8/8.1/10/11(64-bit) Windows Server® 2008 R2/2012 / 2012 R2/2016/2019/2022/2025 and Linux Kernel 2.6.x to 6.x(RHEL / SLES supported, igb driver), enabling simple integration into network designs.

#### Low Profile design

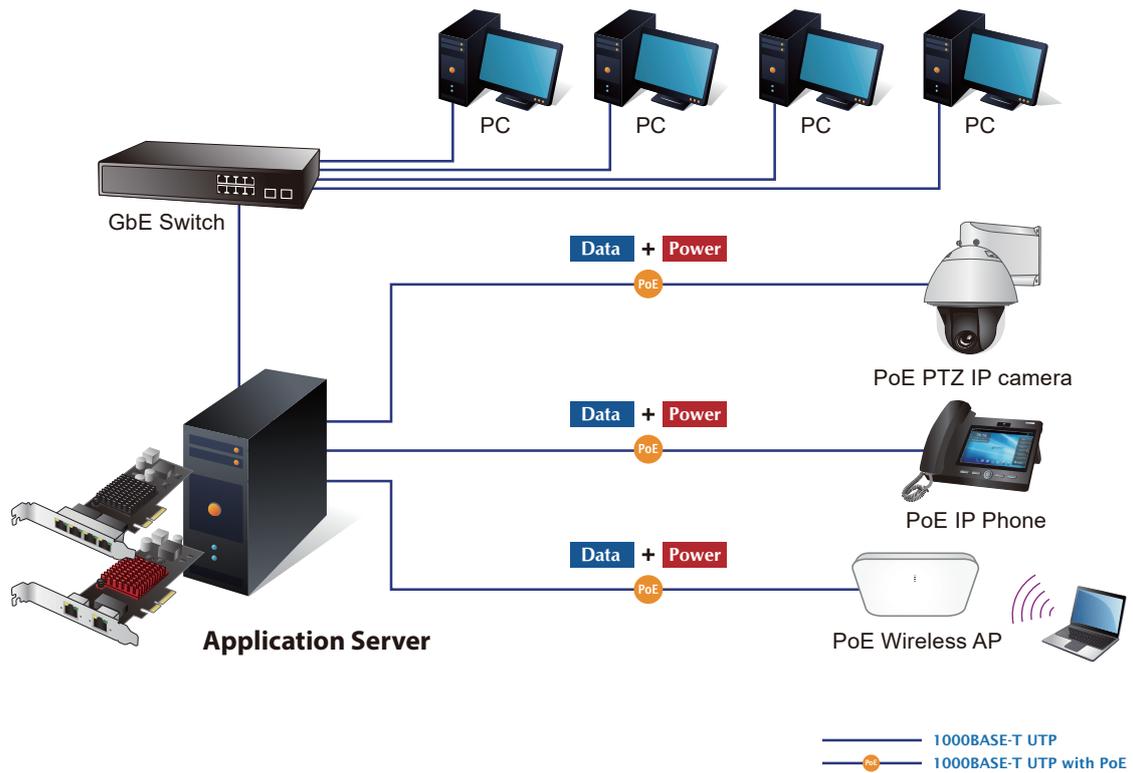
The ENW-9720P/ENW-9740P support both **full-height and low-profile** PCI Express slot. The ENW-9720P/ENW-9740P provides an accessory of low profile bracket to fulfill IPC with low profile slot. The flexibility of low profile design can help the ENW-9720P/ENW-9740P meet various applications of industrial networks.

## Applications

### Server-grade PoE NICs

PLANET ENW-9720P/ENW-9740P are PCI Express PoE NICs built on the Intel® I350 server-grade GbE controller, offering 2-port (ENW-9720P) or 4-port (ENW-9740P) Gigabit connectivity. Both models support 9.5K jumbo frames and IEEE 802.1Q VLAN for flexible network deployment, while hardware offload features help reduce CPU utilization. In addition, each PoE port delivers up to 30 W; the total PoE power budget is 60 W for ENW-9720P and 120 W for ENW-9740P.

ENW-9720P/ENW-9740P serve as reliable server-grade PoE NICs for IP surveillance, IP phones, and WLAN devices, powering endpoints directly from the host server to simplify cabling. With a PCI Express interface, they ensure long-term integration with current and future industrial network systems.



## Product Specifications

Product	ENW-9720P	ENW-9740P
<b>Hardware Specifications</b>		
Controller	Intel I350AM2	Intel I350AM4
Interface	2 x RJ45	4 x RJ45
Data Rate	10/100/1000Mbps	
Dimensions (W x D x H)	163 x 22 x 120 mm	163 x 22 x 120 mm
Weight	100 g	113 g
PCIe Bus Type	PCI Express x4, compliant with PCIe 2.1	
Power Supply	PCIe 12V bus power and 12V Mini-Fit 6-Pin power connector	
Typical Power Consumption	Max. 3 watts/ 10.23BTU (No Loading) Max.63 watts/ 214.83BTU (Full loading)	Max. 3 watts/ 10.23BTU (No Loading) Max.123 watts/ 419.43BTU (Full loading)
LED Indicator	LNK/ACT: Green PoE-in-Use: Amber	
<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 52 VDC, max. 30 watts	
Power Pin Assignment	1/2(+), 3/6(-)	
Single PoE Output	30 watts	
PoE Power Budget	60-watt maximum	120-watt maximum
<b>Advanced Functions</b>		
Layer 2 Features	IEEE 802.1Q VLAN support, IEEE 802.3az Energy Efficient Ethernet (EEE), PXE Network Boot	
Operating System Support	Windows® 7/8/8.1/10/11(64-bit) Windows Server® 2008 R2/2012 / 2012 R2/2016/2019/2022/2025 Linux Kernel 2.6.x to 6.x(RHEL / SLES supported, igb driver)	
<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 IEEE802.3x Flow Control IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE)	
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	

## Ordering Information

ENW-9720P	2-Port 10/100/1000T 802.3at PoE+ PCI Express Server Adapter
ENW-9740P	4-Port 10/100/1000T 802.3at PoE+ PCI Express Server Adapter

## Related Product

ICA-4480F	H.265+ 4MP Full Color Dome IP Camera
ICA-4880	H.265+ 8MP Full Color Smart IR Dome IP Camera
ICA-M3580P	H.265+ 5 MP Full Color Smart IR Bullet IP Camera with Remote Focus and Zoom
ICA-M4580P	H.265+ 5 MP Full Color Smart IR Dome IP Camera with Remote Focus and Zoom
ICA-3880	H.265+ 8MP Full Color Smart IR Bullet IP Camera
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
WDAP-3000AX	Dual Band 802.11ax 3000Mbps Outdoor Wireless AP
WDAP-W3000AX	Dual Band 802.11ax 3000Mbps In-wall Wireless Access Point
WDAP-C5100BE	Dual Band 802.11be 5100Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ 1 10/100/1000/2500T Port and 1 10/100/1000T LAN Port
WDAP-C3000AX	Dual Band 802.11ax 3000Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2 10/100/1000T LAN Ports
POE-E304	1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender
POE-E202	1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender
IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter

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ENW-9720P/ENW-9740P