10Gbps SFP+ PCI Express Server Adapter

- PCI Express rev. 3.0 specification with 2-lane interfaces
- Compatible with PCI Express Rev 3.0 specification, PCIe x4 or higher slot
- IP, TCP, UDP checksum offloading
- IEEE 802.1Q VLAN ID Tagged
- 16K jumbo frame size
- IEEE 802.3x full-duplex flow control
- PXE boot support
- Wake-on-LAN (WOL) support
- Complies with Microsoft and Linux Platforms

Enhanced from the current highly-praised version, PLANET ENW-9801 **Version 4** 10Gbps SFP+ PCI Express Server Adapter adopts **Realtek LAN controller solution**. It provides **PCI Express rev. 3.0 specification with 2 lane interfaces** and other advanced features as follows:

- **Smaller and compact in design**
- **Flexible 10G SFP+ module installation**
- **Supports PXE boot/Wake-on-LAN**
- **Long/Low profile bracket**

The Server Level Adapter to Expand Networking Environments

The ENW-9801 is a PCI Express 10Gbps Ethernet Adapter designed to meet high-performance system application requirements. With the innovative PCI Express Bus Architecture, the ENW-9801 provides superior performance than the network cards based on 32/64bit PCI architecture. It provides the best solution to one of the major issues of Server Farm Networks -- communication speed. Ten times faster than the existing 1000BASE-SX/LX fiber solutions, PLANET ENW-9801 is designed to connect your servers and workstations, guaranteeing extremely high throughput and excellent signal quality.

Moreover, the ENW-9801 supports IEEE 802.1Q VLAN which allows it to operate in a flexible and secure network environment. With 16K Jumbo Frame ability and IEEE 802.3 Flow Control support, it further optimizes throughput and wire-speed packet transfer performance without risk of packet loss. The high data throughput of the device makes it ideal for most 10 Gigabit Ethernet environments.

10 Gigabit Performance Boosts Network Traffic

The ENW-9801 is an optimal solution to Ethernet applications by providing low-power budgets and small form factor. It offers simple integration into any **PCI Express x4 or higher server slot** via one SFP+ slot. The onboard controller featured on the ENW-9801 integrates embedded technology and a 10GbE MAC into a single chip that offers up to 10Gbps of network throughput. PLANET Network solution greatly reduces the TCP/IP packet processing tasks of the server's CPU by performing enhanced data-handling algorithms, thereby providing nearly 10Gb line speed performance with the simplicity of a conventional Network Interface Card (NIC).

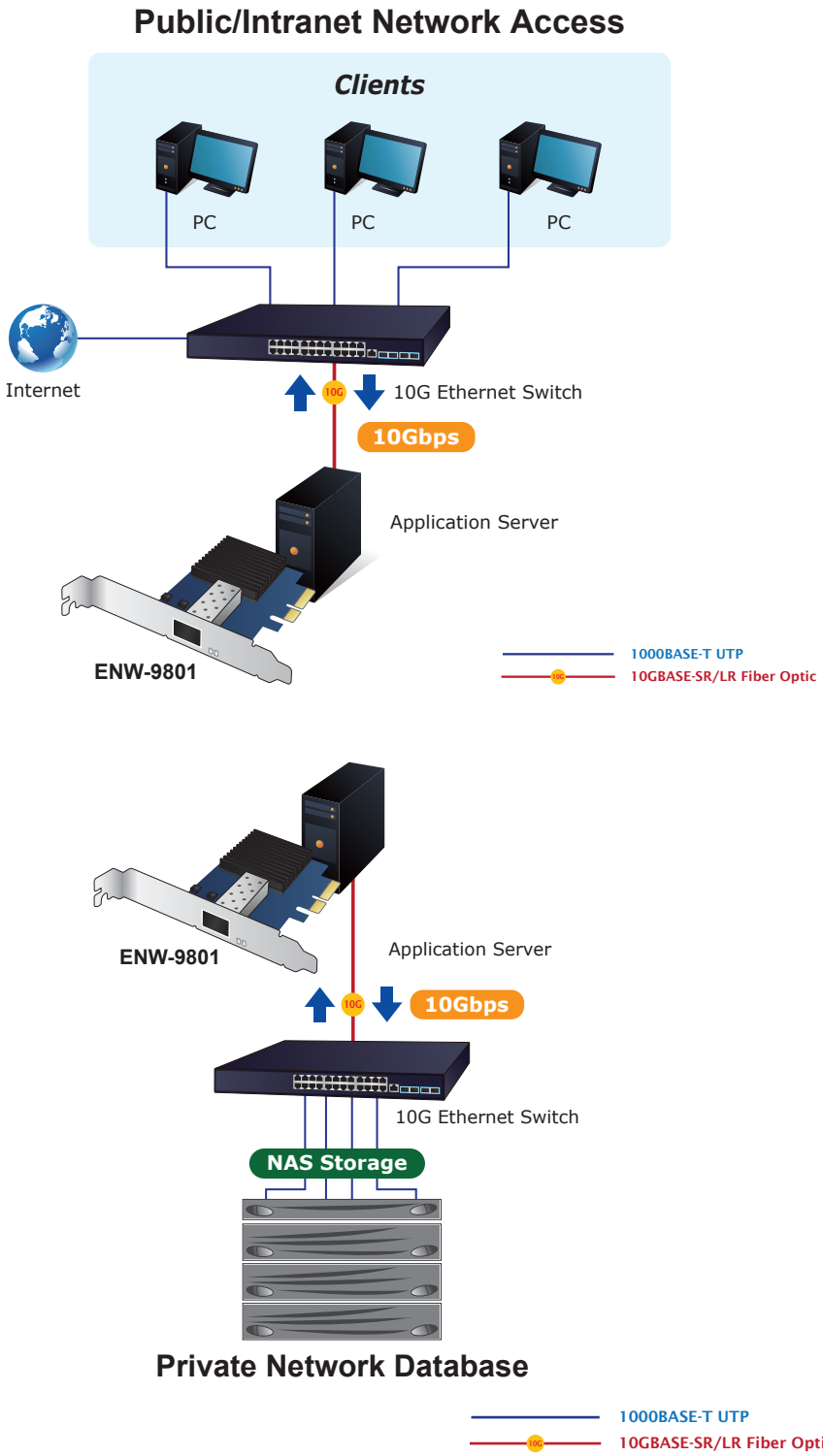
Multiple OS Support

The ENW-9801 operates completely well with most of the popular and latest operating systems including **Microsoft Windows workstation or server**, **Linux**, 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-9801 to be integrated into the system.

Applications

Server NICs

PLANET ENW-9801 is equipped with one 10 Gigabit SFP interface, giving ten times more performance than the existing Gigabit transmission. Thus, the ENW-9801 can easily act as a server NIC of your networks by wiring to the backbone switches. With one PCI Express rev. 3.0 specification and 2 lane Interfaces, the ENW-9801 is an ideal solution to the mainboard with PCI Express interface (x4 or higher) now and in the future.



Product Specifications

Product	ENW-9801
Hardware Specifications	
Hardware Version	4
Attachment Interface	PCI Express rev. 3.0 specification x 2 lane Interfaces
Media Interface	SFP+ Connector
Optical Module Options	LRM, LR, SR
Jumbo Frame	4K/9K/16K Bytes
LED Indicators	LNK Speed (**Green**) LNK/ACT(**Green**)
Dimensions (W x D x H)	120 x 107 x 22 mm
Weight	67.3g (W/ Long Profile Bracket)
Typical Power Consumption	2 watts/ 6.8BTU (3.3V/600mA)
Advanced Functions	
Layer 2 Features	IEEE 802.3x Flow Control support IEEE 802.1Q VLAN support
Pre-boot Execution Environment (PXE)	Yes
Operating System Support	Windows Server 2022 64 bits Windows 10 32/64 bits Windows 11 64 bits 10G Ethernet LINUX driver r8127 for kernel 6.15
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class B, CE
Standards Compliance	IEEE 802.3ae 10Gbps Ethernet IEEE 802.3x Flow control and back pressure IEEE 802.1Q VLAN tagging
Environment	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 85 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Package	
Package Contents	ENW-9801 Server Adapter QR Code Sheet Low Profile Bracket

Ordering Information

ENW-9801	10Gbps SFP+ PCI Express Server Adapter

Related Products

ENW-9803	10GBASE-T PCI Express Server Adapter

Available 10Gbps Modules

MTB-RJ	1-Port 10GBASE-T SFP+ Copper Fiber Optic Module - 30m
MTB-SR	1-Port 10GBASE-SR SFP+ Fiber Optic Module - 300m
MTB-SR2	1-Port 10GBASE-SR SFP+ Fiber Optic Module – 2km
MTB-LR	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 10km
MTB-LR20	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 20km
MTB-LR40	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 40km
MTB-LR60	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 60km
MTB-LR80	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 80km
MTB-LA10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1270nm RX:1330nm)
MTB-LB10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1330nm RX:1270nm)
MTB-LA20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1270nm RX:1330nm)
MTB-LB20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1330nm RX:1270nm)
MTB-LA40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1270nm RX:1330nm)
MTB-LB40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1330nm RX:1270nm)
MTB-LA60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1270nm RX:1330nm)
MTB-LB60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1330nm RX:1270nm)
MTB-LA70	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 70km (TX:1270nm RX:1330nm)
MTB-LB70	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 70km (TX:1330nm RX:1270nm)

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Tel: 886-2-2219-9518 Fax: 886-2-2219-9528

Email: sales@planet.com.tw www.planet.com.tw