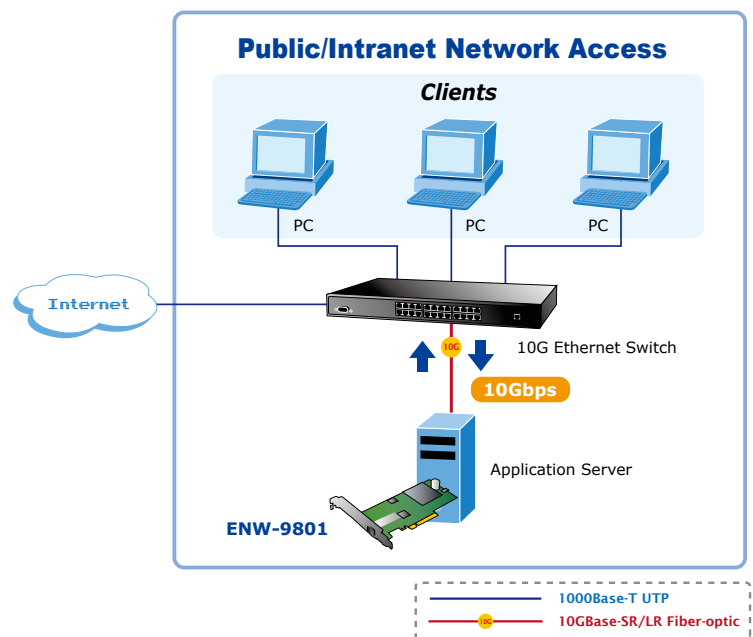# 10Gbps SFP+ PCI Express Server Adapter

KEY FEATURES

- One SFP+ slot

- PCI Express x8 Host Bus interface

- 16K Jumbo Frame

- IEEE 802.1Q Tagged VLAN

- IEEE 802.1p CoS traffic priority

- SNMP RMON Statistics

- Low Power Consumption

- Complies to Microsoft, Linux, FreeBSD, Solaris OS

- Virtual NIC support

- Lower CPU utilization: reduce CPU utilization and improve throughput

10 Gigabit Performance Boosts Network Traffic

The PLANET ENW-9801 Single-Port 10 Gigabit Ethernet server adapter is an optimal solution for Ethernet applications by providing strict low-power budgets and small form factor. It offers simple integration into any PCI Express x8 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).

Next Generation Server Adapter for growth and expansion of networking environments

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

APPLICATIONS

Server NICs

With ten times performance of existing Gigabit transmission, the ENW-9801 can easily act as a server NICs of your networks by wiring to the backbone Switches. With one PCI Express interface design, the ENW-9801 is right for the main board with PCI Express now and future.

Public/Intranet Network Access

Clients

PC   PC   PC

Internet

10G Ethernet Switch

10Gbps

Application Server

ENW-9801

1000Base-T UTP
10GBase-SR/LR Fiber-optic

SPECIFICATION

Product	10Gbps SFP+ PCI Express Server Adapter
Model	ENW-9801
Hardware Specification	
Attachment Interface	PCI Express Host Bus Interface, 8 lanes / 4 lanes PCI Express Rev 1.1a
Media Interface	1 SFP+ slot (SFF-8431)
Optical Module Options	LRM, LR, SR
Cabling Options	SFP+ LC connector, 50/125μm & 62.5/125μm multi-mode fiber cable. 9/125μm single-mode cable.
Memory	3Mb internal memory
Jumbo Frame	16K
LED Indicators	Link / Active per port
Typical Power Dissipation	10 Watts
Dimension (W x D)	147 x 63.5 mm (Low Profile)
Advanced Function	
Layer 2 Features	• IEEE 802.3x Flow Control support • IEEE 802.1Q VLAN support • Multicast ACL
Performance enhancements	• Microsoft Scalable Networking • Receive-side scaling (RSS): Optimization for multiple CPUs under Windows OS control • Reduced host bus traffic • Optimization for multiple CPUs • IP acceleration • Widely used network protocol • IP, TCP and UDP checksum offloading • Large Send (up to 64 KB): Increased network throughput • IPv4, IPv6
OS Support	• Windows Server 2003, Windows Server 2008 • Windows XP, Windows Vista™, Windows 7 • Linux 2.4, Linux 2.6, Linux 64-bit • Redhat Enterprise Linux 4.7 & 5.3 • VMware® ESX 3.5 • Multiple queues management • Windows Management Interface (WMI)
Standards Conformance	
Regulation Compliance	FCC Part 15 Class B, CE
Standards Compliance	IEEE Std 802.3ae: 10Gbps Ethernet IEEE 802.3x: Flow Control and Back pressure IEEE 802.1Q: VLAN Tagging
Environment	
Operating	Temperature: 0 ~ 65 Degree C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 85 Degree C Relative Humidity: 5 ~ 95% (non-condensing)

ORDERING INFORMATION

ENW-9801	10Gbps SFP+ PCI Express Server Adapter

RELATIVE PRODUCTS

ENW-9800	Dual 10Gbps SFP+ PCI Express Server Adapter

AVAILABLE MODULES

MTB-SR	SFP+ Port 10GBase-SR mini-GBIC Module (Multi-mode / 850nm / max. 550m)
MTB-LR	SFP+ Port 10GBase-LR mini-GBIC module (Single mode / 1310nm / max. 10km)

PLANET Technology Corporation
11F, No. 96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C.
Tel: 886-2-2219-9518   Fax: 886-2-2219-9528
Email: sales@planet.com.tw   www.planet.com.tw