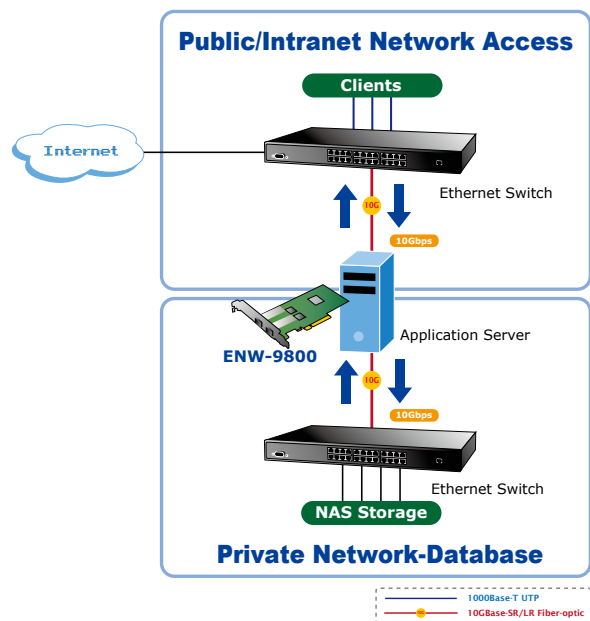# Dual 10Gbps SFP+ PCI Express Server Adapter

KEY FEATURES

- Dual 10 Gigabit performance in a low profile form factor
- Two SFP+ connectors
- PCI Express x8 Host Bus interface
- 16K Jumbo Frame
- IP, TCP checksum offloading
- IEEE 802.1Q Tagged VLAN
- SNMP MIB Statistics
- Low Power Consumption
- Virtual NIC support
- Lower CPU utilization: reduce CPU utilization and improve throughput
- Maximize Protocol Flexibility

10 Gigabit Performance Boosts Network Traffic Speed

The PLANET ENW-9800 dual-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 two SFP+ connectors.

The onboard controller featured on the ENW-9800 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-9800 is a PCI Express Gigabit Ethernet adapter designed to address high-performance system application requirements. With the innovative PCI Express Bus Architecture, the ENW-9800 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-9800 to connect your servers and workstations guarantees extremely high throughput and excellent signal quality.

Seamless Integration

The ENW-9800 operates completely harmony with the OS of the server, enabling simple integration into designs. No any modification to the server's operating system or any special software is needed. The ENW-9800 can take the place of the Ethernet MAC of any conventional TCP connection and the existing TCP/IP stack of server's CPU is still kept intact. It requires only a simple, standard PCI driver to connect the ENW-9800 to the software.

APPLICATIONS

Server NICs

With ten times performance of existing Gigabit transmission, the ENW-9800 can easily act as a server NIC of your networks by wiring to the backbone Switches. With one PCI Express interface design, the ENW-9800 is right for the main board with PCI Express now and future.

Public/Intranet Network Access

Clients

Internet

Ethernet Switch

10G

10Gbps

Application Server

ENW-9800

10G

10Gbps

Ethernet Switch

NAS Storage

Private Network-Database

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

Data Sheet

SPECIFICATION

Product	Dual 10Gbps SFP+ PCI Express Server Adapter
Model	ENW-9800
Hardware Specification	
Attachment Interface	PCI Express Host Bus Interface, 8 lanes PCI Express Rev 1.1a
Media Interface	2 SFP+ connectors (SFF-8431)
Optical Module Options	LRM, LR, SR
Cabling Options	SFP+
Memory	3Mb internal memory
Jumbo Frame	9K / 16KBytes
LED Indicators	Link / Active per port
Typical Power Dissipation	10W
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
Performance Enhancements	• Microsoft Scalable Networking • Receive-side scaling (RSS) • 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) • IPv4, IPv6
NOS Support	• Windows Server 2003, Windows Server 2008 • Windows XP, Windows Vista™ • Linux 2.4, Linux 2.6, Linux 64-bit • VMware® ESX 3.5 • Multiple queues management • Windows Management Interface (WMI)
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3ae 10Gb/s 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: -40 ~ 85 Degree C Relative Humidity: 5 ~ 95% (non-condensing)

ORDERING INFORMATION

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

RELATED PRODUCTS

MTB-SR	SFP+ Port 10GBase-SR mini-GBIC Module (Multi-mode / 850nm / max. 300m)
MTB-LR	SFP+ Port 10GBase-LR mini-GBIC module (Single mode / 1310nm / max. 10km)

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