Dual 10Gbps - CX4 and SFP+ PCI Express Server Adapter

Dual Interfaces Design

PLANET ENW-9802 is the new 10G Server NIC adapter equipped with two 10G (SFP+ and CX4) interfaces and low-profile PCI Express form factor to bring high performance, better quality and more prices friendly.

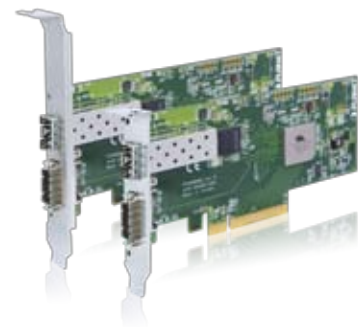### Low Cost and High Performance 10G Connection

The new connector interface of 10GBase-CX4 follows the IEEE specification for 10 Gigabit over coaxial cable and has competitive advantage of cost-effectiveness compared with other 10G interfaces like SFP+ and XFP. Nowadays, with rapidly increasing network flow at the data centers and network rooms, the current Gigabit Switches bandwidth may be not enough to support the heavy network flow.

Optimizing Server / NAS Performance

The ENW-9802 Dual-Port 10 Gigabit Ethernet server adapter is an optimal solution for Ethernet applications by providing strict low-power budgets. It offers simple integration into any PCI Express x8 server slot via SFP+ or CX4 connectors. 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 server adapter.

Next Generation Server Adapter for Network Expansion

The ENW-9802 is also a PCI Express Gigabit Ethernet adapter designed to address high-performance system application requirements. With the innovative PCI Express Bus Architecture, the ENW-9802 provides better performance than the network cards based on 32/64bit PCI architecture. It gives the best solution to one of the major issues of Server Farm Networks - communication speed. Ten times faster than existing 1000Base-SX/LX solutions, the ENW-9802 guarantees extremely high throughput and excellent signal quality for your servers and workstations.
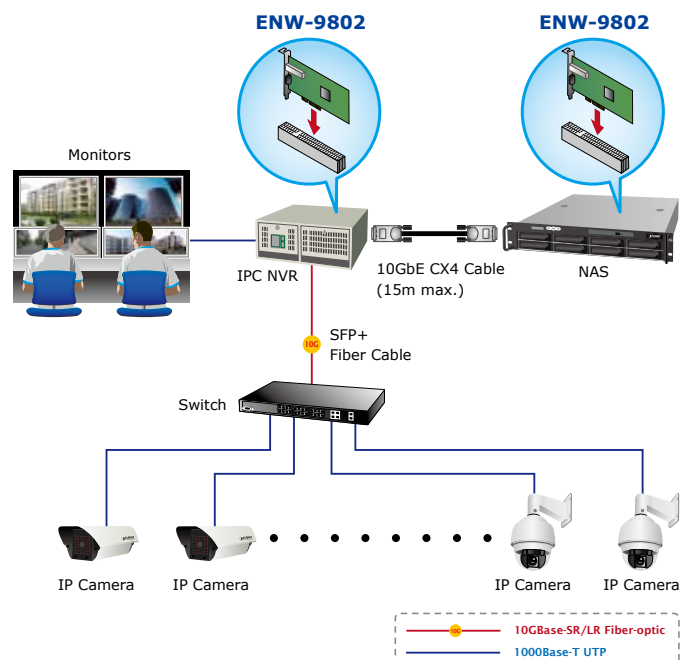
KEY FEATURES

- 10 Gigabit Performance in a low Profile form factor
- One SFP+ and one CX4 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

APPLICATIONS

Server NICs

With ten times performance of existing Gigabit Ethernet transmission, the ENW-9802 can easily act as a server NIC of your networks by wiring to the backbone Switches. With one PCI Express interface design, the ENW-9802 is also right for the main board with PCI Express now and future.

ENW-9802   ENW-9802

Monitors

IPC NVR   10GbE CX4 Cable (15m max.)   NAS

SFP+ Fiber Cable

Switch

IP Camera   IP Camera   IP Camera   IP Camera

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

SPECIFICATION

Product	10Gbps SFP+ and CX4 PCI Express Server Adapter
Model	ENW-9802
Hardware Specification	
Attachment Interface	PCI Express Host Bus Interface, 8 lanes / 4 lanes PCI Express Rev 1.1a
Media Interface	1 SFP+ (SFF-8431) and 1 CX4 connectors
Optical Module Options	LRM, LR, SR
Cabling Options	SFP+ , CX4
Cable Distance	Max. 15 meters CX4 cable Max. 10km single mode, 9/125um fiber cable with 10GBase-LR SFP+ transceiver
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
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
NOS Support	Windows Server 2003, Windows Server 2008 Windows XP, Windows Vista™ Linux 2.4, Linux 2.6, Linux 3.0 Linux 64-bit Multiple queues management Windows Management Interface (WMI)
Standards Conformance	
Regulation Compliance	FCC Part 15 Class B, CE
Standards Compliance	IEEE 802.3ae 10Gbit/s - Ethernet over Fiber IEEE 802.3ak 10Gbit/s CX4 - Ethernet over twin-axial cable 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-9802	10Gbps SFP+ and CX4 PCI Express Server Adapter

ACCESSORY

CB-CX4-2M	10G Ethernet Copper CX4 Latching Cable - 2 Meters

AVAILABLE MODULES

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

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C-ENW-9802