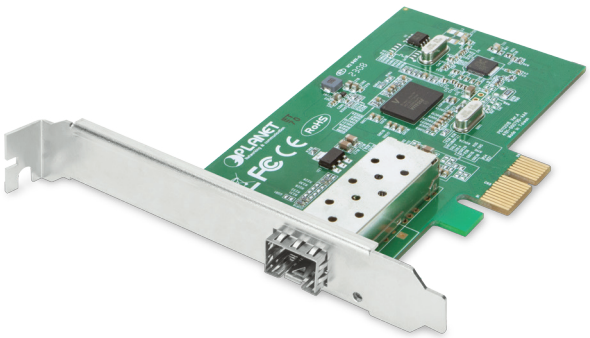
1000BASE-X SFP PCI Express Gigabit Ethernet Adapter



- One 1000BASE-X SFP slot
- One PCI Express Host Bus interface
- 9K Jumbo Frame
- IP, TCP checksum offloading
- IEEE 802.1Q Tagged VLAN
- Low Power Consumption
- Windows Server, Win7/8/10/11, Linux, and MAC OS X Ready

High Performance Boosts Network Traffic Speed and Flexible Distance Extension

PLANET ENW-9701 1000BASE-X SFP PCI Express Gigabit Ethernet Adapter is ideal for high end servers to extend long distance network reliably and flexibly with up to 2000Mbps full-duplex bandwidth capacity. It is an optimal solution for Ethernet applications by providing strictly low-power budgets and small form factor.

Flexible Distance Option

With the 1000BASE-X SFP (small-form factor pluggable) interface, the ENW-9701can extend fiber network deployment distance from 550 meters (via multi-mode fiber) to 10/20/30/40/50/70/120 kilometers (via single-mode fiber). Users can choose the most suitable SFP transceiver module for their needs. The ENW-9701 connects your servers and workstations, guaranteeing extremely high throughput and excellent signal quality.

More Bandwidth and Advanced Functions

The ENW-9701 is designed to address high-performance system requirements. With the innovative PCI Express Bus Architecture, the ENW-9701 provides better bandwidth and performance than the network cards which are based on 32/64bit PCI architecture. Moreover, the ENW-9701 supports IEEE 802.1Q VLAN which allows it to operate in a flexible and secure network environment. With 9K Jumbo Frame ability and IEEE 802.3 Flow Control support, it offers further optimal throughput and wire-speed packet transfer performance without risk of packet loss. The high data throughput of the device makes it ideal for most Gigabit Ethernet environments.

Seamless Integration

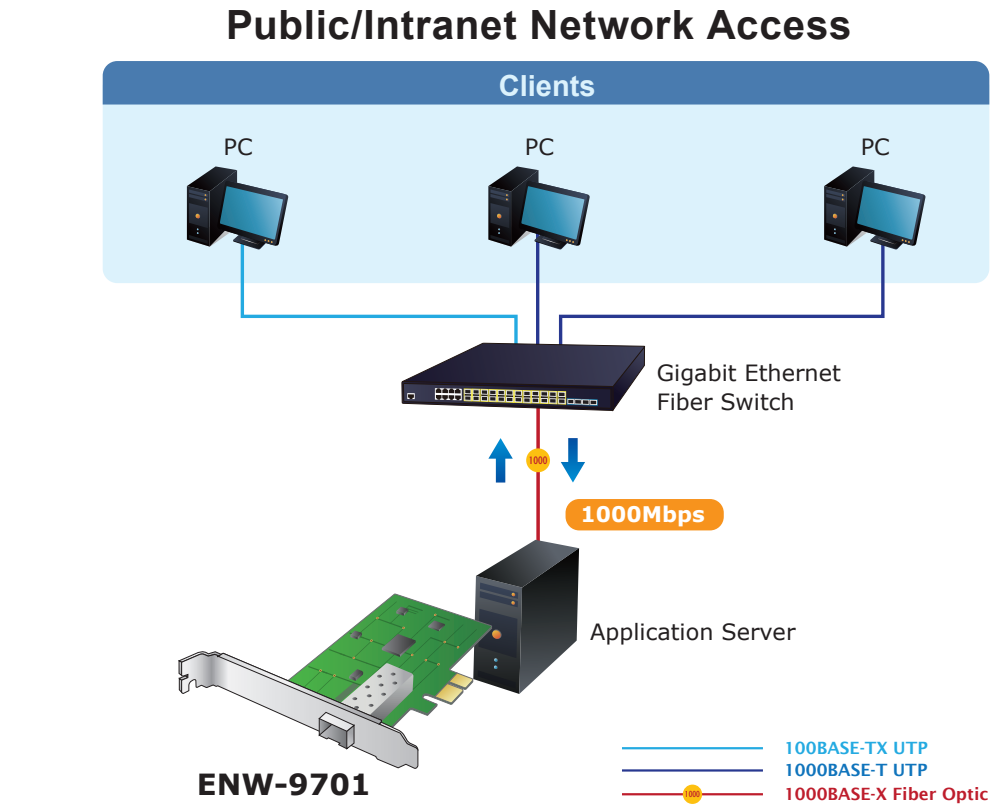
The ENW-9701 is completely harmonious with most of the servers' operating systems, enabling simple integration into network designs. There is no need of any modification to the server's operating system or any special software required for the ENW-9701 to be integrated into the system. The ENW-9701 can take the place of the Ethernet MAC of any conventional TCP connection and have the existing TCP/IP stack of server's CPU still kept intact. It requires only a simple, standard PCIe driver to connect the ENW-9701 to the software.

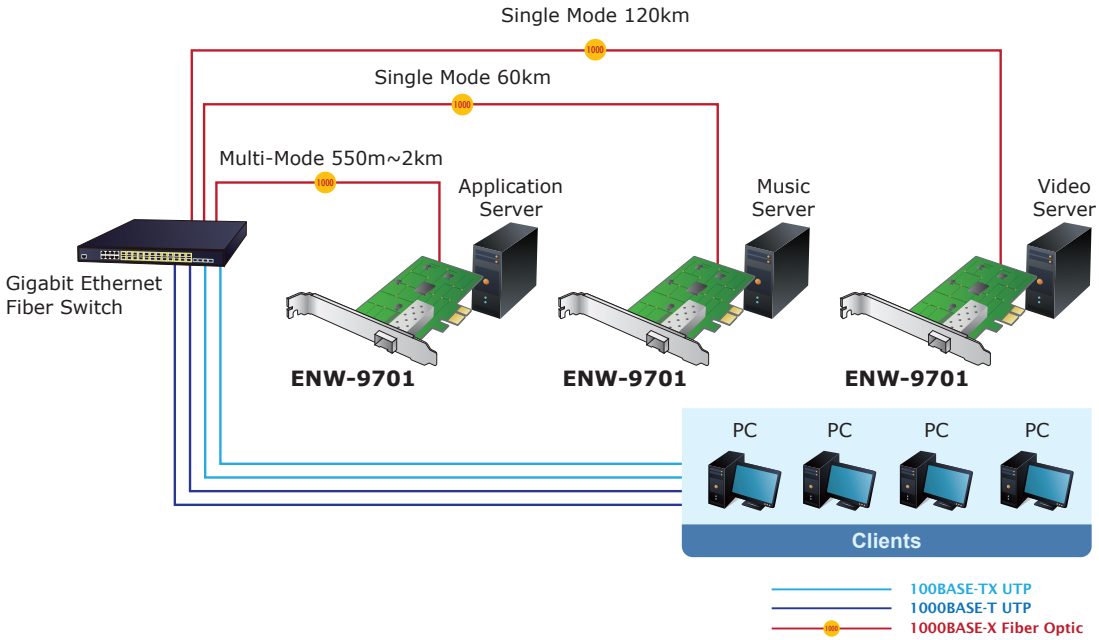
Applications

Server / Workstation NICs

PLANET ENW-9701 is equipped with one Gigabit SFP fiber connector which allows users to extend the network distances without any limitation and provides ten times performance than the existing Fast Ethernet transmission and PCI Express 1.1 technology. The ENW-9701 can easily act as a server NICs of your networks by wiring to the backbone switches and is right for the mainboard with PCI Express now and in the future. The ENW-9701 is a highly cost-effective solution and the best choice for the upgrade of various Fiber Optic network applications, such as:

- High-end Server / Storage Server
- Terminal Station
- PC-based Video Recorder
- Industrial Computer
- POS Cash Register





Product Specifications

Product	ENW-9701	
Hardware Specifications		
Attachment Interface	PCI Express Host Bus Interface, 1 lane PCI Express Rev 1.1	
Media Interface	SFP slot (LC Interface)	
Cabling Options	SFP LC connector : 50/125μm & 62.5/125μm Multi-Mode fiber cable 9/125μm Single-Mode cable	
Jumbo Frame	9Kbytes	
LED Indicators	Link / Active per port	
Dimensions (W x D)	121.4 x 119.5mm	
Advanced Functions		
Layer 2 Features	• IEEE 802.3x Flow Control support • IEEE 802.1Q VLAN support	
Performance Enhancements	• Receive-side scaling (RSS): Optimization for multiple CPUs under Windows OS control • Reduced host bus traffic • IP, TCP and UDP Checksum Offloading • Transmit / Receive On-Chip Buffer Support • IPv4, IPv6	
OS Support	• Windows Server 2008R2/2012R2/2016R2/2019R2/2022R2 64bits • Windows 7/8/8.1/10 32/64bits • Windows 11 64bits • Linux (Kernel version 2.6.x/3.x/4.x or later) • VMware® ESX/ESXi 2.6.x/3.x/4.x/5.x/6.x or later • MacOS 10.7	
Standards Conformance		
Regulation Compliance	FCC Part 15 Class B, CE	
Standards Compliance	IEEE 802.3z IEEE 802.3x IEEE 802.1Q	1000BASE-X Gigabit Ethernet Flow Control and Back pressure VLAN Tagging
Environment		
Operating	Temperature: 0 ~ 65 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	
Storage	Temperature: -10 ~ 85 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	

Ordering Information

ENW-9701	1000BASE-X SFP PCI Express Gigabit Ethernet Adapter

Related Products

ENW-9801	10Gbps SFP+ PCI Express Server Adapter
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

Available Gigabit SFP Modules

MGB-GT	SFP-Port 1000BASE-T Module
MGB-SX	SFP-Port 1000BASE-SX mini-GBIC module - 220/550m
MGB-SX2	SFP-Port 1000BASE-SX mini-GBIC module – 2km
MGB-LX	SFP-Port 1000BASE-LX mini-GBIC module - 10km
MGB-L30	SFP-Port 1000BASE-LX mini-GBIC module - 30km
MGB-L50	SFP-Port 1000BASE-LX mini-GBIC module - 50km
MGB-L70	SFP-Port 1000BASE-LX mini-GBIC module - 70km
MGB-L120	SFP-Port 1000BASE-LX mini-GBIC module - 120km
MGB-LA10	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km
MGB-LB10	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km
MGB-LA20	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km
MGB-LB20	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km
MGB-LA40	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km
MGB-LB40	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km
MGB-TSX	SFP-Port 1000BASE-SX mini-GBIC module - 220/550m(-40~75 degrees C)
MGB-TLX	SFP-Port 1000BASE-LX mini-GBIC module - 10km (-40~75 degrees C)
MGB-TL30	SFP-Port 1000BASE-LX mini-GBIC module - 30km (-40~75 degrees C)
MGB-TL70	SFP-Port 1000BASE-LX mini-GBIC module - 70km (-40~75 degrees C)
MGB-TLA10	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km (-40~75 degrees C)
MGB-TLB10	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km (-40~75 degrees C)
MGB-TLA20	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km (-40~75 degrees C)
MGB-TLB20	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km (-40~75 degrees C)
MGB-TLA40	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km (-40~75 degrees C)
MGB-TLB40	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km (-40~75 degrees C)
MGB-TLA60	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 60km (-40~75 degrees C)
MGB-TLB60	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 60km (-40~75 degrees C)

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

PLANET reserves the right to change specifications without prior notice. All brand names and trademarks are property of their respective owners. Copyright © 2024 PLANET Technology Corp. All rights reserved.