

# Managed Gigabit Ethernet Media Converter



## WEB/SNMP/OAM Remotely Managed Gigabit Converter

PLANET's GT-90x series is a 10/100/1000Base-T to 1000Base-LX / SX Managed Media Converter developed to fulfill the advanced demand of Network applications equipped with 'plug and play' features. The GT-90x series provides a flexible solution that accepts a variety of 10/100/1000Mbps Ethernet Media on its RJ-45 port and offers stable Gigabit fiber performance. It supports conversion between 10/100/1000Base-T and 1000Base-LX / SX networks, and are compatible with SC / SFP / WDM connectors (with single-mode or multi-mode media as required). The Ethernet signal allows three types of segments to connect easily, efficiently and inexpensively.

## User-Friendly Web Management Interface

For efficient management, the GT-90x series Managed Gigabit Ethernet Media Converter is equipped with a remote Web / SNMP interface. With its built-in Web-based management, PLANET's GT-90x series uses a user-friendly, platform-independent, management and configuration interface. The GT-90x series also supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. In addition, the TS-1000/802.3ah OAM protocol (operations, administration, and maintenance) features all the GT-90x to remotely manage devices.

## Enhanced Management Features

The GT-90x series can be programmed for advanced management functions such as IP address configuration, DHCP Client function, port configuration, converter configuration, 802.1Q Tag VLAN, Q-in-Q VLAN, Ingress/Egress bandwidth control, QoS and Layer protocol filter, broadcast storm and bandwidth control, to enhance bandwidth utilization.

## 'Plug and Play' Installation

The GT-90x series Managed Gigabit Ethernet Media Converter complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-LX / SX standards. The Gigabit media converter features a simple 'plug and play' installation. This GT-90x series can be used as a stand-alone unit or as a slide-in module to PLANET's Media Converter Chassis (MC-700, MC-1000 and MC-1500). The media converter chassis can provide DC power to the GT-90x series and maintain a fiber-optic network at a central location.

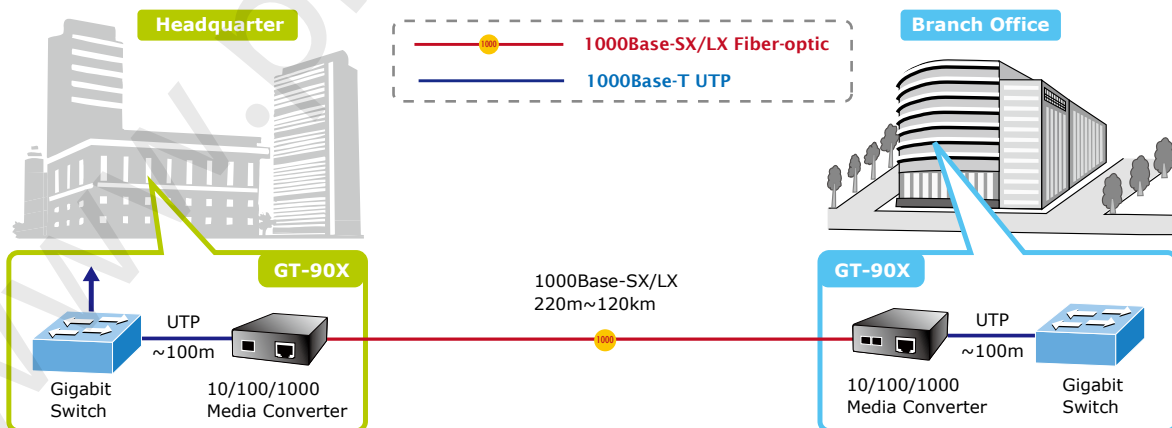
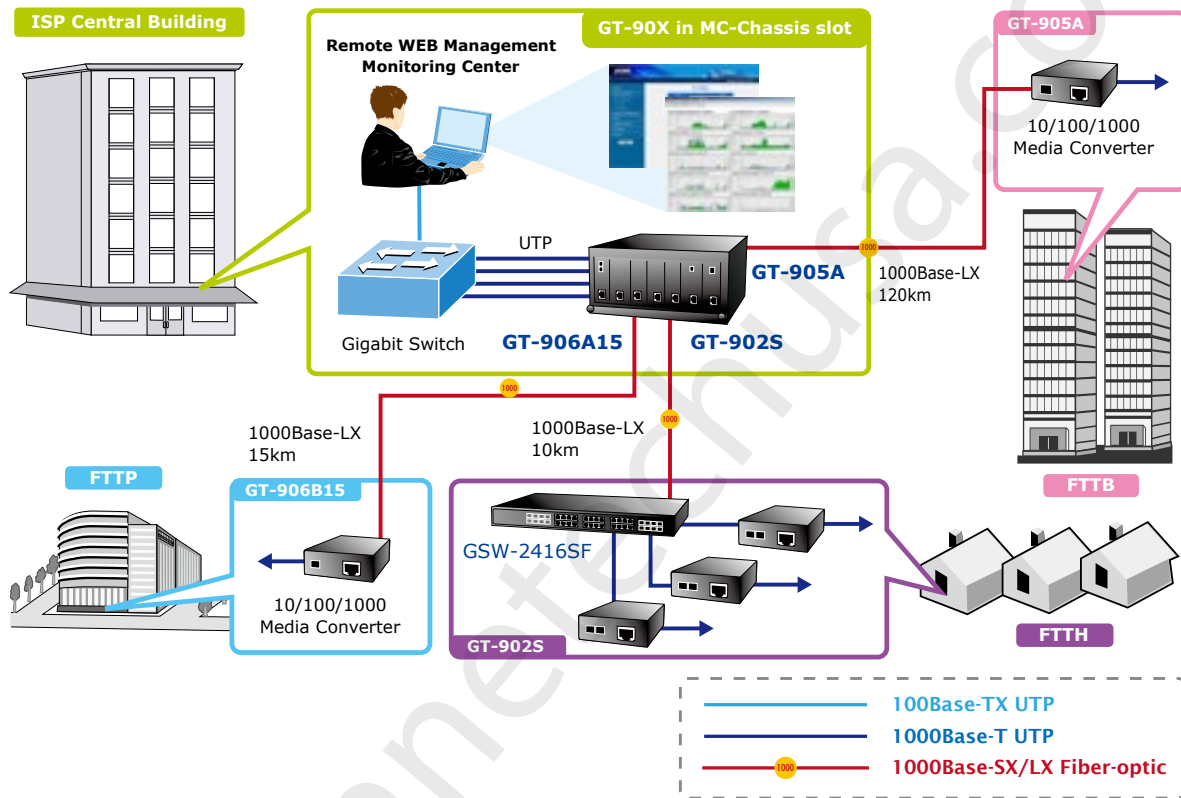
## KEY FEATURES

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX
- One-channel media conversion between 10/100/1000Base-T and 1000Base-SX / LX
- TP port supports 10/100/1000Base-T auto-negotiation and auto-MDI/MDI-X
- 1000Base-SX: 50/125µm or 62.5/125µm multi-mode fiber cable, up to 220/550m on GT-902
- 1000Base-LX: 9/125µm single-mode cable provides long distance for 10km on GT-902S
- 1000Base-LX WDM interface for up to 15km (single-mode fiber 9µm/125µm) on GT-906A15/B15
- 1000Base-LX WDM interface for up to 60km (single-mode fiber 9µm/125µm) on GT-906A60/B60
- 1000Base-T: 2-pair Cat. 5/5e/6 UTP cable, up to 100 meters
- Compact size for working with PLANET MC family Media Chassis (MC-700/1000R/1500)
- Wall-mountable hardware design
- Built-in IP-based Web interface for remote management
- Layer 2 Management Feature
  - IEEE 802.3x PAUSE Frame Flow Control for Full-Duplex mode
  - Store-and-Forward mechanism
  - Built-in Web interface for remote management and setup
  - Manual IP address setting / DHCP client for IP address assignment
  - SNMP v1 / v2c monitor / private Enterprise MIB
  - Event trap and SNMP trap support
  - Speed duplex mode configuration / Flow Control setting / bandwidth Control on TP / Fiber port
  - Supports Port Status / Ethernet Statistics on both TP and Fiber interface
  - Supports Maximum frame size to 16K bytes
  - Loop detection / Broadcast / Multicast / Unicast storm control
  - Management VLAN / 16 IEEE 802.1Q VLAN groups / Q-in-Q VLAN
  - 802.1p Tag Priority / IP address priority / IP DSCP option in Quality of Service Mode and Strict Priority / Weighted Round Robin (WRR) QoS policies
  - TS-1000 OAM / IEEE 802.3ah OAM / Loop Back Test
  - 16 TCP / UDP Filter groups
  - Password setting, IP setting and devices description setting through Planet Smart discovery utility
  - Firmware upgrade via remote Web interface
- External DC 5V 2A power supply
- LED indicators for easy network diagnosing
- Reset Button at the front panel for the factory default reset
- Choice of fiber-connector from SC, LC, WDM, multi-mode / single-mode fiber /1000Base-SX / LX mini GBIC module

**APPLICATIONS**

**Fiber-Optic Networking for ISP, Enterprise, and Home**

With high performing data transmission and easy installation, ISPs can use the GT-90x series Managed Gigabit Ethernet Media Converter to build a FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) network solution, and also supports FTTB (Fiber to the Building) applications for small office network environments or enterprises. The GT-90x series features a user-friendly, web management interface that helps network administrators easily monitor and setup the converter, the transmission speed and duplex.



**SPECIFICATION**

Model	GT-902	GT-902S	GT-905A	GT-906A15	GT-906B15	GT-906A60	GT-906B60	
<b>Hardware Specification</b>								
Standards	IEEE 802.3, 10Base-T IEEE 802.3u, 100Base-TX IEEE 802.3ab, 1000Base-T IEEE 802.3z, 1000Base-SX/LX							
Ports	1 x 10/100/1000Base-T port, 1 x 1000Base-SX/LX port							
Copper Interface	RJ-45 port (Auto-MDI/MDI-X) Twisted Pair							
Optic Interface	SC		SFP	WDM				
Optic wavelength	850nm	1310nm	--	TX:1310nm RX:1550nm	TX:1550nm RX:1310nm	TX:1310nm RX:1550nm	TX:1550nm RX:1310nm	
Launch Power (dBm)	Max.	-4 dBm	-3 dBm	--	-3 dBm	+5 dBm	-3 dBm	+4 dBm
	Min.	-9.5 dBm	-9.5dBm	--	-9 dBm	0 dBm	-9 dBm	-1 dBm
Receive Sensitivity	-13.5 dBm	-14.4 dBm	--	-21 dBm	-25 dBm	-21 dBm	-25 dBm	
Maximum Input power	-18 dBm	-20 dBm	--	-3 dBm	-3 dBm	-2 dBm	-2 dBm	
Speed	Twisted-pair	10/20Mbps for Half / Full-Duplex 100/200Mbps for Half / Full Duplex 2000Mbps for Full-Duplex						
	Fiber-optic	2000Mbps for Full-Duplex						
Cable	Twisted-pair	10Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m 100Base-TX: 2-pair UTP Cat. 5, up to 100 m 1000Base-T: 4-pair STP Cat 5 up to 100m						
	Fiber-optic cable	50/125µm or 62.5/125µm multi-mode fiber cable, up to 220/550m. 9/125µm single-mode cable, provides long distance for 10/15/20/30/40/50/60/70/120km (very on fiber transceiver or SFP module)						
LED indicator	PWR, TP LINK/ACT, 1000 Fiber LINK/ACT							
Power consumption	3.8 Watts/ 13 BTU (maximum)							
Power Input	DC 5V / 2A							
Dimension (W x D x H)	93 x 70 x 26 mm							
Operating Environment	Temperature: 0~50 Degree C; Humidity: 5~90% non-condensing							
Storage Environment	Temperature: -40~70 Degree C; Humidity: 5~90% non-condensing							
Emissions	FCC Class A, CE Class A							

**ORDERING INFORMATION**

GT-902	10/100/1000Base-T to 1000Base-SX Managed Media Converter (SC,MM)-220/550m
GT-902S	10/100/1000Base-T to 1000Base-LX Managed Media Converter (SC,SM)-10km
GT-905A	10/100/1000Base-T to mini-GBIC Managed Media Converter (LC,MM/SM)-distance depend on SFP module
GT-906A15	10/100/1000Base-T to 1000Base-LX Managed Media Converter (WDM,SM, TX:1310 RX:1550)-15km
GT-906B15	10/100/1000Base-T to 1000Base-LX Managed Media Converter (WDM,SM, TX:1550 RX:1310)-15km
GT-906A60	10/100/1000Base-T to 1000Base-LX Managed Media Converter (WDM,SM, TX:1310 RX:1550)-60km
GT-906B60	10/100/1000Base-T to 1000Base-LX Managed Media Converter (WDM,SM, TX:1550 RX:1310)-60km

AVAILABLE MINI-GBIC MODULES FOR GT-905A

MGB-GT	SFP-Port 1000Base-T mini-GBIC module
MGB-SX	SFP-Port 1000Base-SX mini-GBIC module
MGB-LX	SFP-Port 1000Base-LX mini-GBIC module
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 mini-GBIC module- LC WDM(TX:1310nm), SM,10km
MGB-LB10	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,10km
MGB-LA20	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,20km
MGB-LB20	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,20km
MGB-LA40	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,40km
MGB-LB40	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,40km

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