

# Managed Gigabit Ethernet Media Converter



## Remotely Managed Gigabit Converter

PLANET GT-905A 10/100/1000BASE-T to 100/1000BASE-X Managed Media Converter is developed to meet the advanced demand of network applications but it comes with the easy Plug and Play feature. The GT-905A provides all kinds of 10/100/1000Mbps Ethernet Media on RJ45 port and offers highly-stable Gigabit SFP fiber performance. It supports conversion between 10/100/1000BASE-T and 100/1000BASE-X Ethernet, which includes SFP slot 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 and Centralized Web Management Interface

For efficient management, the GT-905A is equipped with a remote Web/SNMP interface. With its built-in Web-based management, PLANET GT-905A acts as an easy-to-use, platform-independent management and configuration facility. The GT-905A also supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. Moreover, the TS-1000/802.3ah OAM protocol (operation, administration, and maintenance) supported enables remote devices to be managed and monitored by the GT-905A.

## Enhanced Management Features

The GT-905A 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, and broadcast storm and bandwidth control to enhance bandwidth utilization.

## Easy Installation

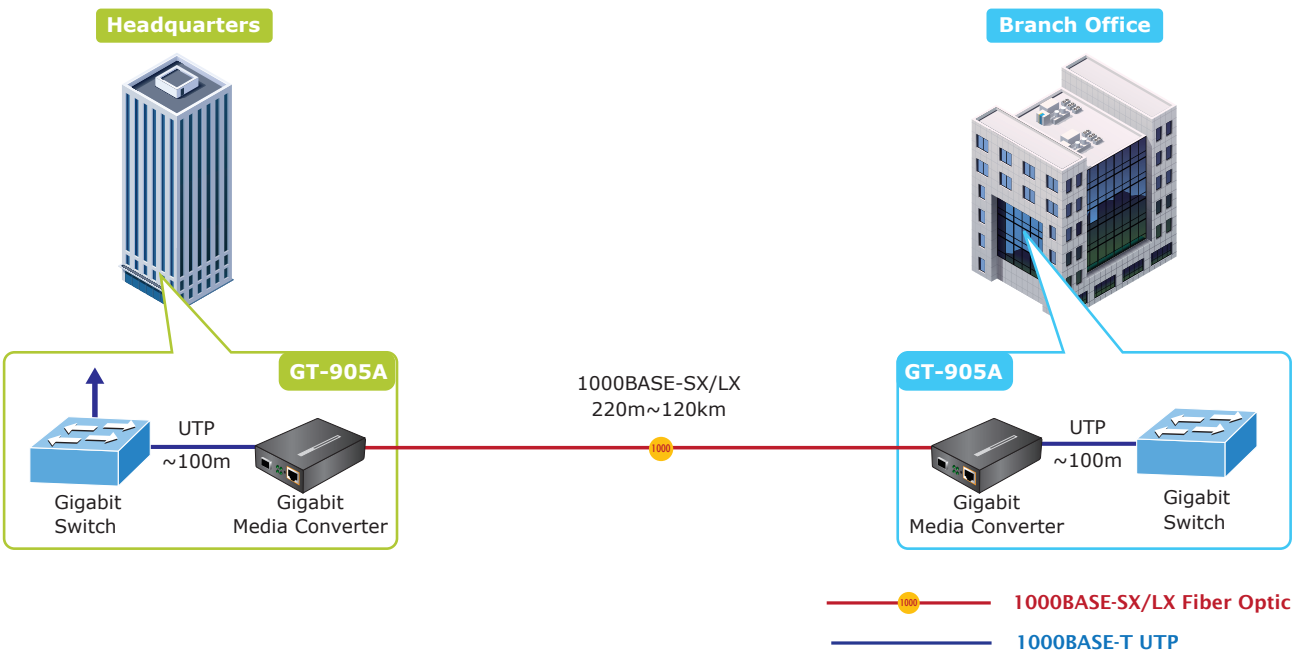
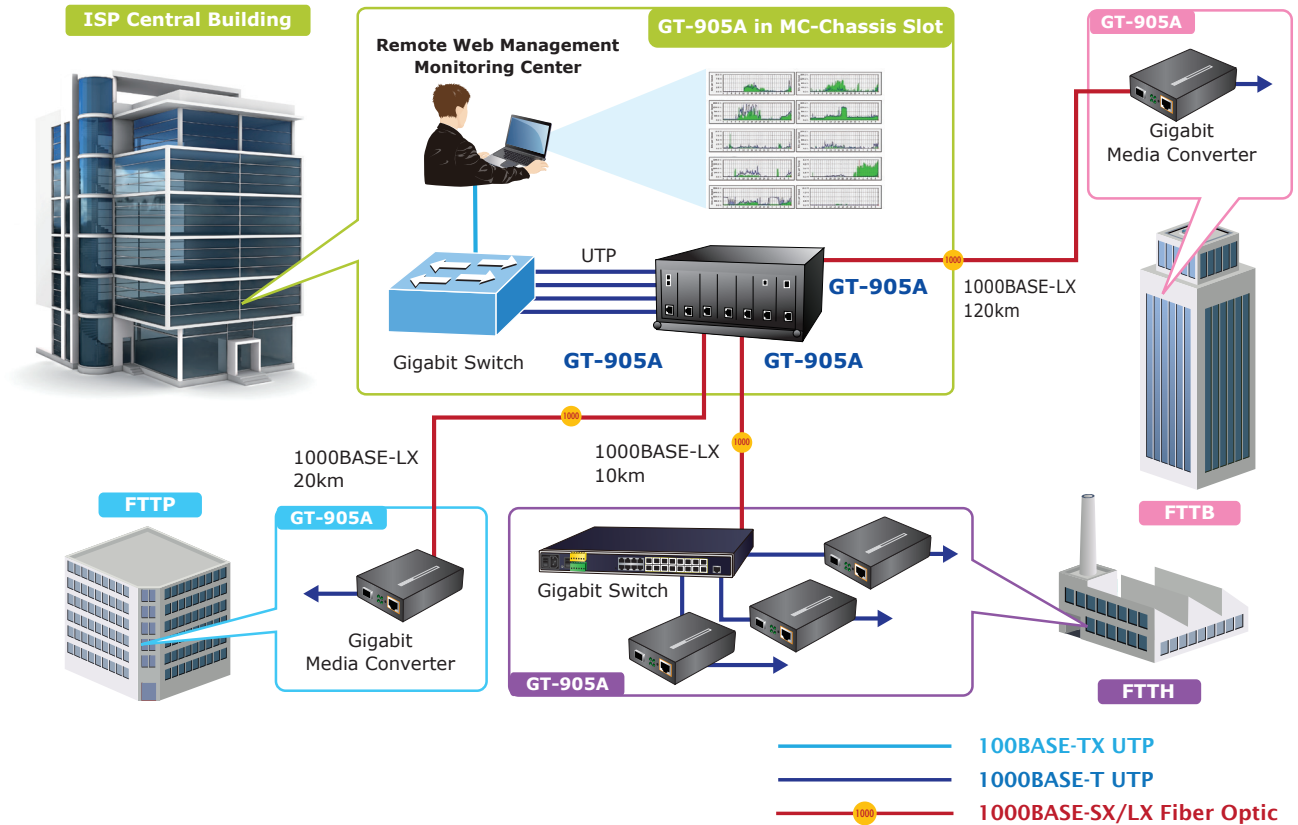
As the GT-905A fully complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX, IEEE 802.3ab 1000BASE-T and IEEE 802.3z 1000BASE-LX/SX, the Gigabit media converter is quick and simple to install via the Plug and Play function. It can be used as a stand-alone unit or as a slide-in module to PLANET Media Converter Chassis (MC-700, MC-1500 and MC-1500R series). The media converter chassis can provide DC power to the GT-905A to maintain the fiber-optic network at the central location.

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX
- One-channel media conversion between 10/100/1000BASE-T and 100/1000BASE-X
- TP port supports 10/100/1000BASE-T auto-negotiation and auto-MDI/MDI-X
- 1000BASE-T: 2-pair Cat. 5/5e/6 UTP cable, up to 100 meters
- Choice of LC fiber-connector from 100/1000BASE-X SFP mini GBIC module (distance vary on fiber transceiver or SFP module)
- Compact size for working with PLANET MC family Media Chassis (MC-700/1500/1500R/1500R48)
- Wall mounting
- Built-in IP-based Web interface for remote management
- Layer 2 Management Feature
  - 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 interfaces
  - Supports maximum frame size of 16K bytes
  - Loop detection, and broadcast, multicast and 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 device status via Planet Smart Discovery utility
  - Firmware upgrade via remote Web interface
- External DC 5V 2A power supply
- LED indicators for easy network diagnosing
- Reset button for the factory default reset

## Applications

### Fiber-optic Networking for ISPs, Enterprises and Homes

With high-speed data transmission and easy installation, the GT-905A can build FTTH (Fiber to the Home) and FTTC (Fiber to the Curb) for ISPs, and FTTB (Fiber to the Building) for enterprises. The IGT-905A enables network administrators to easily monitor operations via the Web management interface.



## Specifications

Model	GT-905A
<b>Hardware Specifications</b>	
Standards	IEEE 802.3, 10BASE-T IEEE 802.3u, 100BASE-TX/FX IEEE 802.3ab, 1000BASE-T IEEE 802.3z, 1000BASE-SX/LX
Ports	1 x 10/100/1000BASE-T port, 1 x 100/1000BASE-X SFP Slot
Copper Interface	RJ45 port (Auto-MDI/MDI-X) Twisted Pair
Optic Interface	SFP Slot (100/1000X)
Speed Twisted-pair	10/20Mbps for half/full duplex 100/200Mbps for half/full duplex 2000Mbps for full duplex
Speed Fiber Optic	200/2000Mbps 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
Cable Fiber-optic Cable	<ul style="list-style-type: none"> <li>• 50/125µm or 62.5/125µm multi-mode fiber cable, up to 220/550m.</li> <li>• 9/125µm single-mode cable, extending long distance to 10/20/40/60/80/120km (vary on fiber transceiver or SFP module)</li> </ul>
LED Indicator	<ul style="list-style-type: none"> <li>• PWR,</li> <li>• TP LINK/ACT, 1000</li> <li>• Fiber LINK/ACT</li> </ul>
Power Consumption	4 watts/13 BTU (maximum)
Power Input	DC 5V, 2A
Dimensions (W x D x H)	94 x 70 x 26 mm
Operating Environment	Temperature: 0~50 degrees C; humidity: 5~90% non-condensing
Storage Environment	Temperature: -40~70 degrees C; humidity: 5~90% non-condensing
Emissions	FCC Class A, CE Class A

## Ordering Information

GT-905A	10/100/1000BASE-T to 100/1000BASE-X Managed Media Converter
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## Related Products

MC-700	7-Slot Media Converter Chassis
MC-1500	15-Slot Media Converter Chassis
MC-1500R	15-Slot Media Converter Chassis (AC Power)
MC-1500R48	15-Slot Media Converter Chassis (DC Power)

## Available 1000Mbps Modules for GT-905A

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT	--	1000	Copper	--	100m	--	0 ~ 60 degrees C
MGB-SX(V2)	YES	1000	LC	Multi Mode	550m	850nm	0 ~ 60 degrees C
MGB-SX2(V2)	YES	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MGB-LX(V2)	YES	1000	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MGB-L40	YES	1000	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MGB-L80	YES	1000	LC	Single Mode	80km	1550nm	0 ~ 60 degrees C
MGB-L120(V2)	YES	1000	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C

Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-LA10(V2) MGB-LB10(V2)	YES	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C
		1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA20(V2) MGB-LB20(V2)	YES	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
		1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA40(V2) MGB-LB40(V2)	YES	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 degrees C
		1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA80 MGB-LB80	YES	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	0 ~ 60 degrees C
		1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	0 ~ 60 degrees C

## Available 100Mbps Modules for GT-905A

Fast Ethernet Transceiver (100BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-FX	100	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MFB-F20	100	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MFB-F40	100	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MFB-F60	100	LC	Single Mode	60km	1310nm	0 ~ 60 degrees C
MFB-F120	100	LC	Single Mode	120km	1310nm	0 ~ 60 degrees C

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MFB-FA20	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MFB-FB20	100	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C