

10/100/1000Base-T to 1000Base-SX/LX Gigabit Media Converter



PLANET's 10/100/1000Base-T to 1000Base-SX/LX Gigabit Media Converter accepts various types of Ethernet Media on a RJ-45 port and offers stable Gigabit fiber performance. The GT-802, GT-802S, GT-805A and GT-806A/B series of Media Converters supports conversion between a 10/100/1000Base-T and a 1000Base-LX/SX network. The Ethernet signal allows three types of segments to connect easily, efficiently and inexpensively.

Distance Extension with High Performance and Steady Network Communication

PLANET's GT-80x series of Gigabit Media Converters extends communication distance with Gigabit performance via a fiber optical cable. The GT-80x series provides media conversion between 10/100/1000Base-T and 1000Base-SX/LX interfaces such as multi-mode LC/SC connectors (220m / 550m), single-mode LC/SC connectors (10/20/30/40/50/70/120km) and single fiber connectors (WDM, 15/60km) for various fiber optic applications.

Enhanced Smart Management Features

The GST-80x series provides auto MDI/MDI-X on its Ethernet port and the DIP switch to configure the available smart functions including the auto-negotiation / force for fiber interface and Link Pass-through function (LLCF/LLR). The Link Loss Carry Forward (LLCF) function works with Link Loss Return (LLR) to diagnose network connections. Also, the LLR function can immediately alarm network administrator the media link issue and provide efficient solution to monitoring the entire network.

In addition, even if the Web UI is not available on a GT-80x, the network administrator can still remotely control and monitor the GT-80x with its OAM TS-1000 terminal function that controls remote failure indication, loop back testing, port status, performance monitoring and troubleshooting. PLANET's GT-90x and IGT-90xT series products provide TS-1000/802.3ah OAM protocol (operations, administration, and maintenance) support which allows the GT-80x device to be remotely managed and monitored.

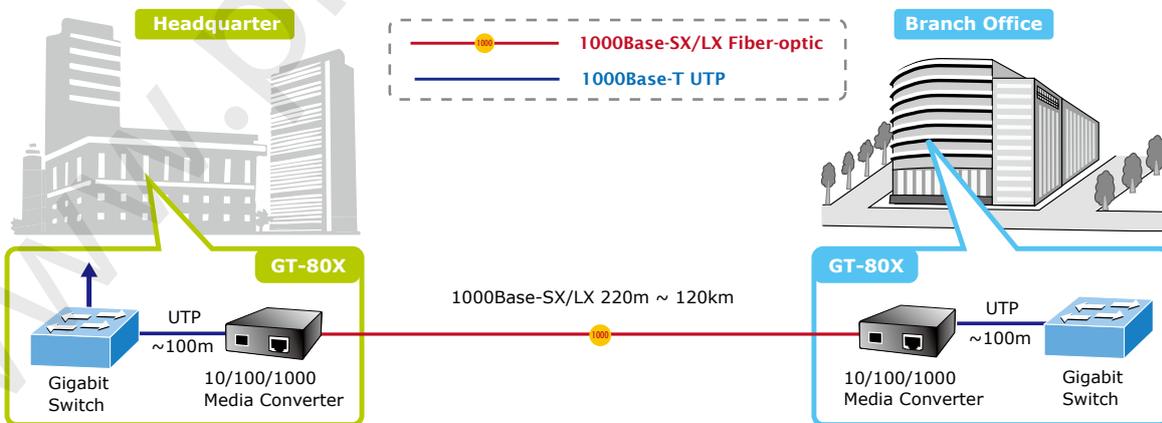
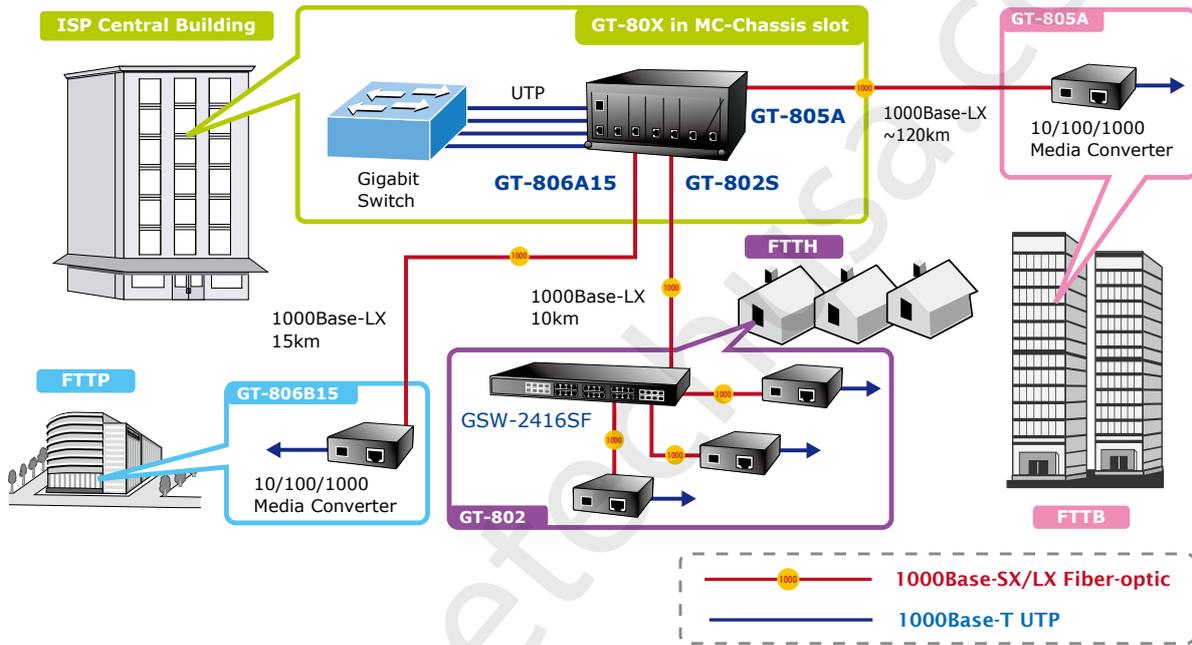
'Plug and Play' Installation

The GT-80x series allows two type segments to connect easily, the GT-80x series can be used as a standalone unit when powered by its DC adapter or used as a slide-in module to PLANET's 19-inch 7/15-Slots media converter chassis (MC-700/MC-1500/ MC-1500R / MC-1500R48). The media chassis can utilize the GT-80x to centralize the power of a fiber-optic network at one location. The Gigabit Media Converter fully complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-LX/SX standard. The Gigabit Media Converter features a simple 'plug and play' installation. The GT-80x also supports flow control and back pressure in half-duplex mode to eliminate packets loss.

APPLICATIONS

Fiber-Optic Networking for ISPs, Enterprises, and Homes

With its high performing data transmission and easy installation, ISPs can use the GT-80x to build a FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) network solution and FTTB (Fiber to the Building) applications for small office network environments or enterprises.



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.
- 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 (GT-802).
- 1000Base-LX: 9/125µm single-mode cable provides long distance for 10km (GT-802S).
- 1000Base-LX WDM interface for up to 15km (single-mode fiber 9µm/125µm) on GT-806A15/B15.
- 1000Base-LX WDM interface for up to 60km (single-mode fiber 9µm/125µm) on GT-806A60/B60.
- 1000Base-T: 2-pair Cat. 5/5e/6 UTP cable, up to 100 meters.
- Layer 2 key Feature
 - IEEE 802.3x Full-Duplex Flow-Control and Back-Pressure in Half-Duplex eliminate the loss of packets
 - Support auto MDI/MDI-X function
 - Store-and-Forward mechanism
- Non-blocking full wire-speed forwarding rate
- Media conversion between 10/100/1000Base-T and 1000Base-SX/LX.
- Fiber media allows:
 - Multi-mode fiber using SC/LC/WDM connector;
 - Single-mode fiber using SC/LC/WDM connector
- Compact size for working with PLANET MC family Media Chassis (MC-700/MC-1500/ MC-1500R / MC-1500R48)
- Wall-mountable design
- LED indicators for easy network diagnose
- Provides DIP switch for LFP function (Disable / Enable) setting
- OAM TS-1000 supported
- 9K Jumbo Frame Supported
- Choice of fiber-connector from SC, LC and WDM, multi-mode / single-mode fiber for 1000Base SFP interface
- Compact in size, easy installation

SPECIFICATION

Model	GT-802	GT-802S	GT-805A	GT-806A15	GT-806B15	GT-806A60	GT-806B60
Hardware Specification							
Hardware Version	3						
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			
Fiber Maximum Distance	220 / 550m	10km	-	15km	15km	60km	60km
Optic Wavelength	850nm	1310nm	-	TX:1310nm RX:1550nm	TX:1550nm RX:1310nm	TX:1310nm RX:1550nm	TX:1550nm RX:1310nm
Max. Optical Launch Power	-4dBm	-3dBm	-	-3dBm	-3dBm	+5dBm	+4dBm
Min Optical Launch Power	-9.5dBm	-9.5dBm	-	-9dBm	-9dBm	0dBm	-1dBm
Max Input Power	-	-3	-	-3	-3	-2	-2
Min Input Power	-18	-20	-	-21	-21	-25	-25
Optical Link Budget	3dB (62.5/125µm) 4dB (50/125µm)	4.9dB	-	12dB	12dB	25dB	24dB
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 (vary on fiber transceiver or SFP module)
LED Indicator		• PWR • TP LINK/ACT, 1000 • Fiber LINK/ACT
DIP switch		LFP function (Disable / Enable) setting
OAM		TS-1000 and IEEE 802.3ah Terminal mode supported
Jumbo Packet Size		9K
Power Consumption		4,6 Watts / 15 BTU (maximum)
Power Input		DC 5V / 2A
Dimensions (W x D x H)		26 x 70 x 97 mm
Weight		0.2kg
Operator Environment		Operating temperature: 0 to 50 Degree C; Humidity: 5~95% non-condensing
Storage Environment		storage temperature: -10 to 70 Degree C; Humidity: 5~95% non-condensing
Emissions		FCC Class A, CE Class A

ORDERING INFORMATION

GT-802	10/100/1000Base-T to 1000Base-SX Media Converter (SC,MM)-220/550m
GT-802S	10/100/1000Base-T to 1000Base-LX Media Converter (SC,SM)-10km
GT-805A	10/100/1000Base-T to 1000Base-SX/LX Media Converter (mini-GBIC, SFP)-distance depend on SFP module
GT-806A15	10/100/1000Base-T to 1000Base-LX (WDM) Media Converter TX:1310nm~15km
GT-806B15	10/100/1000Base-T to 1000Base-LX (WDM) Media Converter TX:1550nm~15km
GT-806A60	10/100/1000Base-T to 1000Base-LX (WDM) Media Converter TX:1310nm~60km
GT-806B60	10/100/1000Base-T to 1000Base-LX (WDM) Media Converter TX:1550nm~60km

RELATED SFP MODULES FOR GT-805A

MGB-SX	SFP-Port 1000Base-SX Transceiver, LC, MM-550m
MGB-LX	SFP-Port 1000Base-LX Transceiver, LC, SM-10km
MGB-L30	SFP-Port 1000Base-LX Transceiver, LC, SM-30km
MGB-L50	SFP-Port 1000Base-LX Transceiver, LC, SM-50km
MGB-L70	SFP-Port 1000Base-LX Transceiver, LC, SM-70km
MGB-L120	SFP-Port 1000Base-LX Transceiver, LC, SM-120km
MGB-LA10	1000Base-LX Transceiver, LC, WDM (TX:1310nm) SM-10km
MGB-LB10	1000Base-LX Transceiver, LC, WDM (TX:1550nm) SM-10km
MGB-LA20	1000Base-LX Transceiver, LC, WDM (TX:1310nm) SM-20km
MGB-LB20	1000Base-LX Transceiver, LC, WDM (TX:1550nm) SM-20km
MGB-LA40	1000Base-LX Transceiver, LC, WDM (TX:1310nm) SM-40km
MGB-LB40	1000Base-LX Transceiver, LC, WDM (TX:1550nm) SM-40km

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