

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



For the flexibility with all kind 10/100/1000Mbps Ethernet Media on RJ-45 port and high stable Gigabit fiber performance. Planet release the GT-802, GT-802S, GT-805A and GT-806A/B series of Media Converters supports conversion between 10/100/1000Base-T and 1000Base-LX/SX network, there are 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.

To centralize the fiber-optic network installation, the GT-80X with compact design can be used as standalone unit as well as being installed to the media chassis such as the PLANET MC-700/MC-1000R/MC-1500, 7/10/15-slot Media Converter Chassis. These media chassis can assist in producing the power for GT-80X to maintain the fiber-optic network at one location.

As 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, the Gigabit media conversion installation is quite quick and easy by simple plugging and playing feature. The GT-80x also supports flow control and back pressure in half-duplex to eliminate packets loss.

## KEY FEATURE

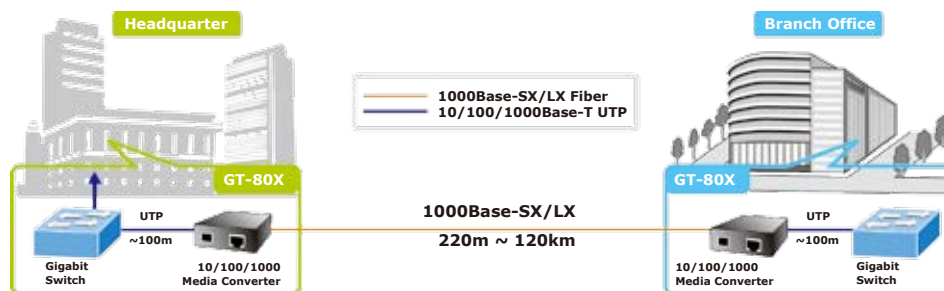
- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX
- TP port supports 10/100/1000Base-T auto-negotiation and auto-MDI/MDI-X
- 1000Base-SX: 50/125 $\mu$ m or 62.5/125 $\mu$ m multi-mode fiber cable, up to 220/550m (GT-802)
- 1000Base-LX: 9/125 $\mu$ m single-mode cable provides long distance for 10km (GT-802S)
- 1000Base-LX WDM interface for up to 15km (single-mode fiber 9/125 $\mu$ m) on GT-806A15/B15
- 1000Base-LX WDM interface for up to 60km (single-mode fiber 9/125 $\mu$ m) on GT-806A60/B60
- 1000Base-T: 4-pair Cat. 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-1000R/MC-1500)
- Wall-mountable design
- LED indicators for easy network diagnose
- Compact in size, easy installation
- Choice of fiber-connector from SC, LC and WDM, multi-mode / single-mode fiber for 1000Base SFP interface

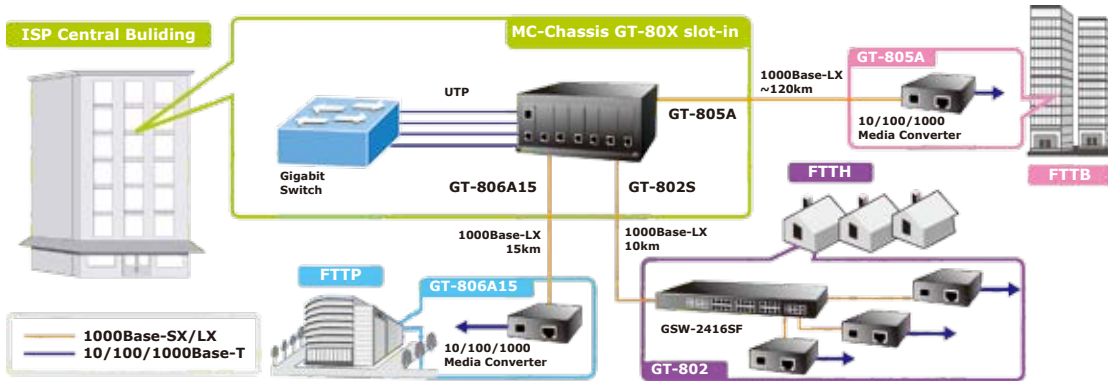
**SPECIFICATION**
**Product** Gigabit Ethernet Media Converter

| Model                         | GT-802   | GT-802S   | GT-805A | GT-806A15 | GT-806B15 | GT-806A60 | GT-806B60 |
|-------------------------------|--|---|---------|-----------|-----------|-----------|-----------|
| <b>Hardware Specification</b> |  |   |         |           |           |           |           |
| Standards                     | IEEE 802.3, 10Base-T<br>IEEE 802.3u, 100Base-TX<br>IEEE 802.3ab, 1000Base-T<br>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 | TX:1550nm | TX:1310nm | TX:1550nm |
| Speed                         | Twisted-pair   |   |         |           | RX:1550nm | RX:1310nm | RX:1550nm |
|                               | Fiber-optic  | 10/20Mbps for Half/Full-Duplex,<br>100/200Mbps for Half/Full Duplex ,<br>2000Mbps for Full-Duplex<br>2000Mbps for Full-Duplex   |         |           |           |           |           |
| Cable                         | Twisted-pair   | 10Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m<br>100Base-TX: 2-pair UTP Cat. 5, up to 100 m<br>1000Base-T: 4-pair STP Cat 5 up to 100m   |         |           |           |           |           |
|                               | 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, provides long distance for 10/15/20/30/40/50/60/70/120km (very on fiber transceiver or SFP module)</li> </ul> |         |           |           |           |           |
| LED Indicator                 | PWR<br>TP LINK/ACT, 1000<br>Fiber LINK/ACT   |   |         |           |           |           |           |
| Power Consumption             | 5.6 Watts/ 19 BTU (maximum)  |   |         |           |           |           |           |
| Power Input                   | DC 5V/2A   |   |         |           |           |           |           |
| Dimensions (W x D xH)         | 26 x 70 x 97 mm  |   |         |           |           |           |           |
| Operator Environment          | Operating temperature: 0 to 50 degree C; Humidity: 5~90% non-condensing                                    |   |         |           |           |           |           |
| Storage Environment           | storage temperature: -40 to 70 degree C; Humidity: 5~90% non-condensing                                    |   |         |           |           |           |           |
| Emissions                     | FCC Class A, CE Class A  |   |         |           |           |           |           |

**APPLICATIONS**
**Fiber-optic Networking for ISP, enterprise, and home**

With high performance of data transmission and easy installation, the GT-80x can build the ISP network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) for ISPs and FTTB (Fiber to the Building), also for small office network environment of enterprises.





## 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 |
| MGB-GT   | SFP-Port 1000Base-T mini-GBIC module                 |

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