



GST-80x Series

10/100/1000Base-T to 1000Base-SX/LX Smart Media Converters

The Planet GST-80X series provide an easy use yet powerful solution for FTTX applications, the 10/100/1000Base-T to 1000Base-SX/LX Smart Media Converters, have plug & play operation and smart media conversion functions.

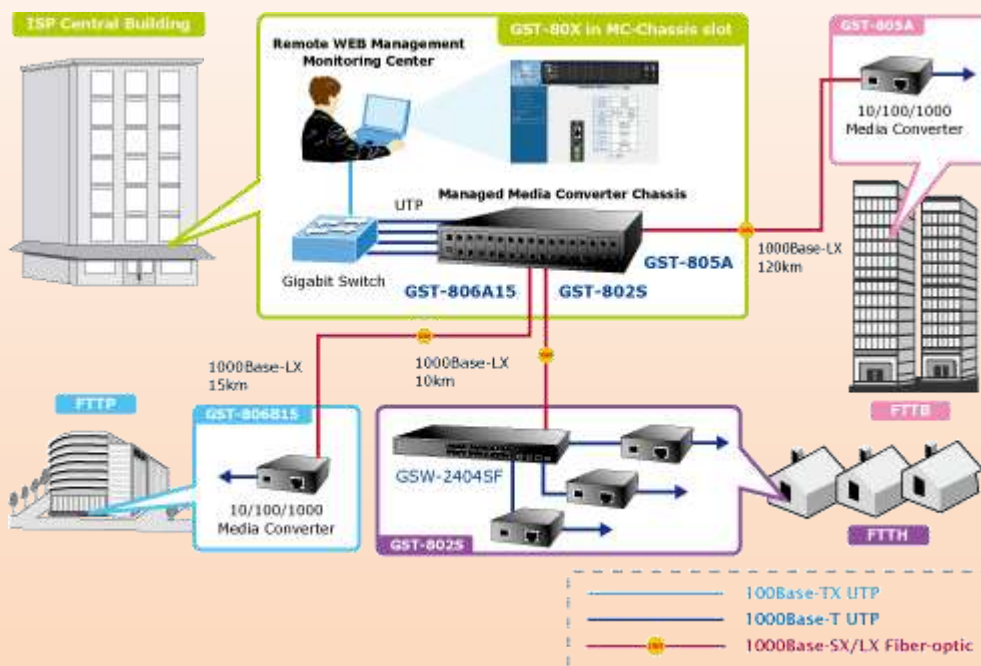
Long Distance Extension Ethernet Networks

The PLANET Smart Gigabit Media Converter - GST-80x series extends communication distance with highly Gigabit performance via fibre optical cable. The GST-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 fibre connectors (WDM, 15/60km) for various fibre optic applications.

Enhanced Smart Management Features

The GST-80x series have Auto MDI/MDI-X on their TP ports and DIP switches to configure the available smart functions including the auto-negotiation / force for fibre 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 a network administrator of any media link issues

Easy Installation The Smart Media Converter can be used as a standalone unit when powered by its DC adapter or used as a slide-in module to the PLANET 19-inch Web Smart / managed 16-Slots media converter chassis (MC-1600MR/MC-1600MR48 & MC-1610MR / MC-1610MR48). When working with the Web Smart / Managed media converter chassis, the GST-80x is able to be managed and its status monitored through the local RS-232 console and remote web interface.



Fibre-Optic Networking for ISP, Enterprise, and Home

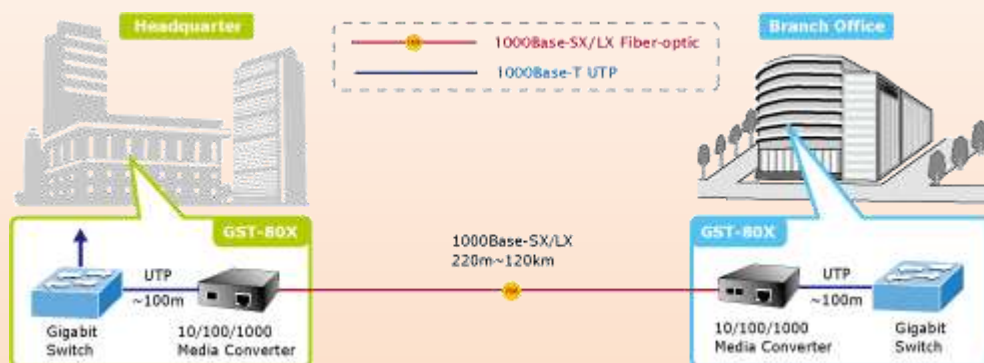
The PLANET GST-80x provides advanced Media conversion technology- 10/100/1000Base-T and 1000Base-SX/LX interfaces to adapt to the different requirements as networks expand. GST-80x series units provide fibre connect type options to suit different network applications. The GST-80x series can work as standalone devices or be installed in the central Web Smart / Management media converter chassis for centralized management. When working with the Web Smart / Management media converter chassis, the GST-80x units are hot swappable to avoid network downtime. The GST-80x is the ideal solution for building a network solution of FTTH (Fibre to the Home) or FTTC (Fibre to the Curb), and FTTB (Fibre to the Building) for ISPs, campuses and enterprise.

Key Features

- Standards:**
 - Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX Ethernet Standard
- Interface:**
 - One 10/100/1000Base-T port with RJ-45 connector
 - One 1000Base-SX/LX port with LC/SC/WDM connector supporting multi-mode or single-mode fibre optic cable
 - Auto-negotiation and Auto-MDI / MDI-X for 10/100/1000Base-T port
- Layer 2 Features:**
 - Back-pressure & IEEE 802.3x compliant flow control and full wire-speed forwarding rate
 - 9K Jumbo Frame size supported
 - Link Loss Return (LLR) switch on each fibre optic to aid in troubleshooting remote network connections
 - Link Loss Carry Forward (LLCF) work with LLR in diagnosing network connections
- Smart Management:**
 - Provides DIP switch for fibre (Auto-negotiation / Manual) and LFP function(Disable / Enable) setting
 - Manageable through Web Smart / Managed Media Converter Chassis System (MC-1600MR/MC-1610MR series)
 - Bandwidth control / TS-1000 OAM / IEEE 802.3ah OAM / Loop Back Test function provided with MC-1610MR / MC-1610MR48 Managed Media Converter Chassis System
- Hardware:**
 - Used as a stand-alone device or work with Web Smart / Managed Media Converter Chassis for up to 16 converter with redundant power supply for optional expansion use
 - LED indicators for converter status
 - Choice of connector-connector from SC, LC, WDM, multi-mode / single-mode fibre / 1000Base-SX / LX mini GBIC module
 - EMI standards complies with FCC, CE class A



GST-80x Series



Model	GST-802	GST-802S	GST-805A	GST-806A15 / A60	GST-806B15 / B60
Transmission Speed	10/100/1000T to 1000Base-SX	10/100/1000T to 1000Base-LX	10/100/1000T To 1000Base-LX/SX	10/100/1000T to 1000Base-LX	10/100/1000T to 1000Base-LX
Fiber Connector	SC	SC	SFP	WDM (Wavelength: TX: 1310nm, RX: 1550nm)	WDM (Wavelength: TX: 1550nm, RX: 1310nm)
Mode	Multimode	Single mode/ Multimode	Single mode/ Multimode	Single mode	Single mode
Max. Fiber Distance	550 m	10km	120 km (with MGB-L120)	15 km / 60 km	15 km / 60km

Specification

Model	GST-80x Series
Hardware Specification	
Standards	IEEE 802.3, 10Base-T IEEE 802.3u, 100Base-TX IEEE 802.3ab, 1000Base-T IEEE 802.3z, 1000Base-SX/LX IEEE 802.3ah OAM
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	GST-802 / GST-802S: SC GST-805A: SFP GST-806A15 / GST-806B15 / GST-806A60 / GST-806B60: WDM
Optic Wavelength	GST-802: 850nm GST-802S: 1310nm GST-805A: N/A GST-806A15: TX:1310nm / RX:1550nm GST-806B15: TX:1550nm / RX:1310nm GST-806A60: TX:1310nm / RX:1550nm GST-806B60: TX:1550nm / RX:1310nm
Launch Power (dBm) Max.	GST-802: -4 dBm GST-802S: -3 dBm GST-805A: N/A GST-806A15: -3 dBm GST-806B15: +5 dBm GST-806A60: -3 dBm GST-806B60: +4 dBm
Launch Power(dBm) Min.	GST-802: -9.5 dBm GST-802S: -9.5dBm GST-805A: N/A GST-806A15: -9 dBm GST-806B15: 0 dBm GST-806A60: -9 dBm GST-806B60: -1 dBm
Receive Sensitivity	GST-802: -13.5 dBm GST-802S: -14.4 dBm GST-805A: N/A GST-806A15: -21 dBm GST-806B15: -25 dBm GST-806A60: -21 dBm GST-806B60: -25 dBm
Maximum Input power	GST-802: -18 dBm GST-802S: -20 dBm GST-805A: N/A GST-806A15: -3 dBm GST-806B15: -3 dBm GST-806A60: -2 dBm GST-806B60: -2 dBm



