

# 1000Base-T to 1000Base-LX / SX Smart Media Converter



For the feature of plug and play and powerful smart function, PLANET releases the new 1000Base-T to 1000Base-LX / SX Smart Media Converter GST-70x series.

The GST-70x series Smart Media Converter provide Media conversion between 1000Base-T and 1000Base-LX / SX interfaces, such as multi-mode LC/SC connectors (220m/550m), single-mode LC / SC connector (10/20/40/50/70/120km) and single fiber connector (WDM, 15/60km). These connection options are able to for various applications.

The GST-70x series Smart Media Converter provide auto MDI/MDI-X on their TP ports and use the DIP switch from the GST-70x to configure the available smart functions, such as the auto-negotiation / force for fiber interface and Link Pass Through function (LLCF / LLR). The LLCF sets default on the board and works with LLR in diagnosed network connections, the LLR function can also immediately alarm network administrators for the media link issue and provide efficient solutions to monitor the entire network.

The GST-70x series Smart Media Converter can allow two types of segments connecting easily with efficient and cost effective. These Smart Media converter can be use as a standalone when its power on by its DC adapter. Or use as a slide-in module to the PLANET new 19-inch Web Smart 16-Slots Media converter chassis (MC-1600MR/MC-1600MR48). With this Web Smart Media converter chassis, the GST-70x are able to manage and monitor status through the local RS-232 console and remote web interface.

## KEY FEATURE

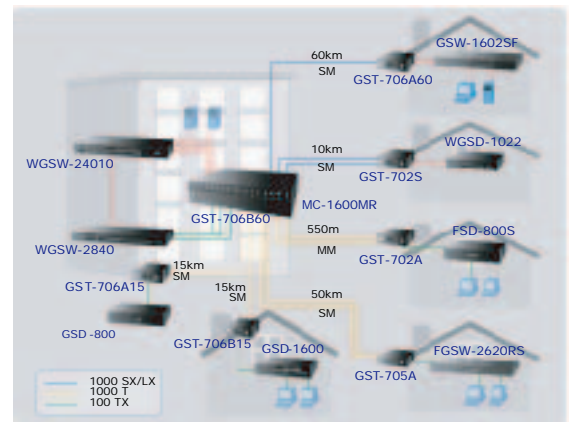
- Complies with IEEE 802.3ab, 1000Base-T and IEEE 802.3z 1000Base-LX / SX Ethernet standard
- Provides one 1000Base-T port with RJ-45 connector and one 1000Base-LX / SX port with LC / SC / WDM connector for supporting multi-mode or single-mode fiber optic cable
- LED indicators for converter status
- Provides DIP switch to set fiber (Auto-negotiation / Manual) and LLR (Disable / Enable)
- Auto-MDI / MDI-X for 1000Base-T port
- Back-pressure, IEEE 802.3x compliant flow control and full wire speed forwarding rate
- Link Loss Return (LLR) switch on each fiber optic to aid in troubleshooting remote network connections
- Link Loss Carry Forward (LLCF) works with LLR in diagnosing network connections
- Manageable through Web Smart Media Converter Chassis System
- Uses as a stand-alone device or with a chassis for up to 16 converter with redundant power supply for optional expanding use
- EMI standards comply with FCC, CE class B

**SPECIFICATION**
**Product 1000Base-T to 1000Base-LX / SX Smart Media Converter**

Model	GST-702	GST-702S	GST-705	GST-705A	GST-706A15	GST-706B15	GST-706A60	GST-706B60
<b>Hardware Specification</b>								
Standards	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-LX / SX							
Ports	1 1000Base-T port , 1 1000Base-LX/SX port							
Fiber Connector	SC	SC	LC	SFP, LC	WDM	WDM	WDM	WDM
Cable	1000Base-T: 2-pair Cat. 5,5e,6 UTP cable, up to 100 meters 1000Base-SX: 50/125µm or 62.5/125µm multi-mode fiber cable, up to 220/550m 1000Base-LX: 9/125µm single-mode cable, provides long distance for 10/20/40/50/70/120km							
LED Indicator	System: PWR TP: LNK, ACT LX / SX: LNK, ACT, FDX							
DIP Switch	Fiber (Auto-negotiation / Manual), LLR (Disable / Enable)							
Speed	Gigabit Ethernet: 1000/2000Mbps for half / full-duplex							
Power Input	DC 5V 2A							
Power Consumption	6.2 Watts / 21 BTU (maximum)							
Operate Environment	0~50 Degree C, 5%~90%RH							
Storage Environment	-20~70 Degree C, 5%~90%RH							
Dimension (W x D x H)	81 x 94 x 26mm							
Weight	0.22kg							
Emission	FCC Class B, CE mark							

**APPLICATIONS**
**Standalone and Centralize Management Media Converter Installation**

Affording the current network grows and expanding, the PLANET GST-70x provide advanced Media conversion technology to fill this kind of demand. The GST-70x provide the diverse fiber connecting types of options to meet different network applications. It is very flexible for GST-70x to work as a standalone device or install into the central Web Smart Media converter chassis for centralized management. While installing the GST-70x into the Web Smart Media Converter chassis, it supports hot swappable to avoid network down time, the GST-70x is ideal solution for building a network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) and FTTB (Fiber to the Building) for ISPs, campuses and enterprises.


**ORDERING INFORMATION**

<b>GST-702</b>	1000Base-T to 1000Base-SX (SC, MM) Smart Media Converter-220m/550m
<b>GST-702S</b>	1000Base-T to 1000Base-LX (SC, SM) Smart Media Converter-10km
<b>GST-705</b>	1000Base-T to 1000Base-LX (LC, MM) Smart Media Converter-220m/550m
<b>GST-705A</b>	1000Base-T to 1000Base-LX / SX (mini-GBIC, SFP) Smart Media Converter-distance depends on SFP module
<b>GST-706A15</b>	1000Base-T to 1000Base-LX (WDM) Smart Media Converter-TX: 1310nm-15km
<b>GST-706B15</b>	1000Base-T to 1000Base-LX (WDM) Smart Media Converter-TX: 1550nm-15km
<b>GST-706A60</b>	1000Base-T to 1000Base-LX (WDM) Smart Media Converter-TX: 1310nm-60km
<b>GST-706B60</b>	1000Base-T to 1000Base-LX (WDM) Smart Media Converter-TX: 1550nm-60km

**RELATED PRODUCTS**

<b>MC-1600MR</b>	16-Slot Web Smart Media Converter Chassis (AC power)
<b>MC-1600MR48</b>	16-Slot Web Smart Media Converter Chassis (DC power)
<b>MC-RPS130</b>	130W Redundant Power Supply, 100-240V AC
<b>MC-RPS48</b>	Redundant Power Supply, DC -48V

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