

3. CHECKLIST

Your GT-70X carton should contain the following items:

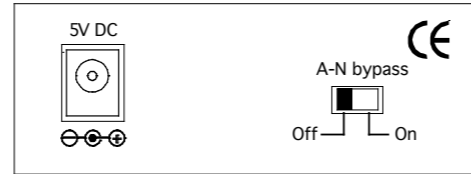
- The Gigabit Ethernet Converter.
- AC-DC Power Adapter (Output: 5VDC, 2A max.).
- This user's manual.

If any item is missing or damaged, please consult the dealer from whom you purchased your Gigabit Ethernet Converter.



GT-705A is with one vacant SFP module slot. The mini GBIC SFP module is not bundled with in the package

Rear View (GT-70X)



One DC jack for DC power input and DIP switch to disable/enable Auto by pass function.



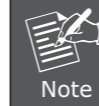
Please note that if converter is connect with switch which is Auto negotiation supported, please enable the A-N bypass function. If both devices are converters then please disable the A-N bypass function.

6. INSTALLING THE CONVERTER

Stand-alone Installation:

To install a GT-70X stand-alone, on a desktop or shelf, simple complete to following steps:

- Turn off the power of the device/station in a network to which the GT-70X will be attached.
- Ensure that there is no activity in the network.
- Attach fiber cable from the GT-70X to the fiber network. TX, RX must be paired at both ends.
- Connect the 5VDC power adapter to the GT-70X and verify that the Power LED lights up.
- Turn on the power of the device/station; the PWR LEDs should light when all cables are attached.



To prevent from optic acceptor malfunction, check the both wires / transmitter before power on the converter.

7. DUPLEX MODE SUPPORT

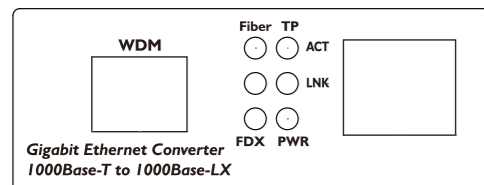
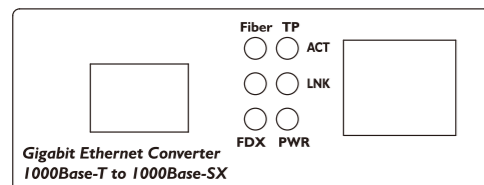
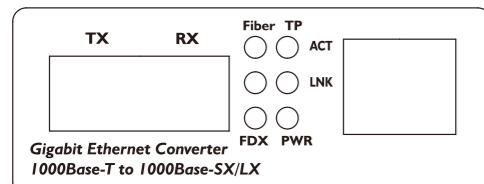
The GT-70X is one-channel media conversion between 1000Base-T and 1000Base-SX/LX/LX WDM. 1000Base-T port can work under Auto-negotiation and fixed 1000Mbps full duplex mode. 1000Base-SX/LX/LX WDM fiber port only work at fixed 1000Mbps full duplex mode.



The fiber interface do not support Auto-negotiation and can not work with 1000Base-SX/LX interface that can not configure to fixed 1000Mbps full duplex.

4. PRODUCT OUTLOOK

Right View (GT-70X)



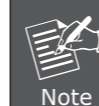
Left: Fiber-optic connector, Right: TP connector. Three LED indicators per TP, fiber port.

5. LED INDICATION

LED	Color	Description
Fiber / ACT	Green	Lit: when the fiber port run in fix 1000Mbps and packet is traveling.
TP/ ACT	Green	Lit: when the packet is traveling.
Fiber / LNK	Green	Lit: when fiber connection is good.
TP / LNK	Green	Lit: when TP connection is good.
FDX	Green	Lit: when the TP port runs in 1000Mbps Full duplex.
PWR	Green	Lit: when +5VDC power detected.

GT-705A

- Connect the fiber cable. Attach the duplex LC connector on the network cable into the SFP transceiver.
- Attach fiber cable from the GT-705A to the fiber network. TX, RX must be paired at both ends.
- Connect the 5VDC power adapter to the GT-705A and verify that the Power LED lights up.
- Turn on the power of the device/station; the PWR LEDs should light when all cables are attached.



It recommends using PLANET MGB-SX / MGB-LX series 1000Base-SX/LX SFP on the converter. If you insert a SFP transceiver that is not supported, the converter will not recognize it.

8. POWER INFORMATION

The power jack of GT-70X is with 2.5mm in the central post and required +5VDC power input. It will conform to the bundled AC-DC adapter and Planet's Media Chassis. Should you have the problem to make the power connection, please contact your local sales representative.

Please keep the AC-DC adapter as spare parts when your GT-70X is installed to a Media Chassis.

9. CABLE CONNECTION PARAMETER

The wiring details are as below:

Cables:

Standard	Fiber Type	Cable Specification
1000Base-SX (850nm)	Multi-mode	50/125µm or 62.5/125µm
1000Base-LX (1300nm)	Multi-mode	50/125µm or 62.5/125µm
	Single-mode	9/125µm

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Wiring Distances:

Standard	Fiber	Diameter (micron)	Modal Bandwidth (MHz * km)	Max. Distance (meters)
1000Base-SX	MM	62.5	100	220
		62.5	200	275
		50	400	500
		50	500	550
1000Base-LX	MM	62.5	5	550
		50	4	
		50	5	
	SM	9	N/A	5000*



Note

The Single-mode port (1000Base-LX port) of GT-702S, GT-705A, GT-706A15/B15 and GT-706A60/B60 is complied with LX 5 kilometers and provides additional margin allowing for a **10/15/60 kilometers** Gigabit Ethernet link on single mode fiber.

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10. PRODUCT SPECIFICATION

The GT-70X comes with the following standard features:

Standards:	IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-SX/LX
Duplex Mode:	Full Duplex Mode
Transfer rate	1000Mbps
Media Interface:	RJ-45, SC, LC, single SC (WDM)
LED indicators:	PWR, FDX, Fiber/LNK/ACT, TP/LNK/ACT
Cable	1000Base-T: 4 pair Cat. 5, EIA/TIA-568 100-ohm screened twisted-pair (STP), up to 100m 1000Base-SX: 62.5/125µm multi-mode fiber optic cable, up to 220m 50/125µm multi-mode fiber optic cable, up to 550m 1000Base-LX: 9/125µm single-mode fiber optic cable, up to 10km/15/60km
Dimensions	26 x 70 x 97mm (H x W x D)
Power	External power adaptor 5V 2A max.

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EMI Compatibility:	FCC Class A, CE Certification Class A
Temperature:	Storage: -40°C ~ 70°C Operating: 0°C ~ 50°C
Humidity:	5% ~ 90% non-condensing



Note

Connecting to the Gigabit Ethernet products, please refer to the device's Technical Manual.

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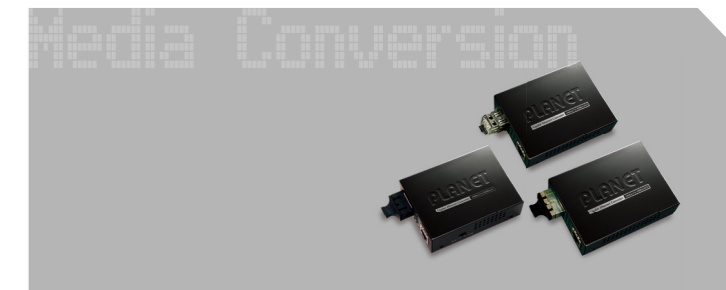


1. PRODUCT FEATURES

- Comply with IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX Ethernet standard
- Full-duplex supports for TP and fiber port
- Auto-negotiation on 1000Base-T port
- Auto-MDI/MDIX on TP port
- LED indicators for simple diagnostics and management
- Provides DIP switch to disable/enable auto-negotiation by-pass function
- Compact in size, easy installation
- Can be installed on PLANET's 10"/19" Media Converter Chassis (MC-700/1000R/1500)

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1000Mbps GT-70X Series 1000Base-T to 1000Base-SX/LX Media Converter



User's Manual

2. MODEL LIST

Your Gigabit Ethernet Converter comes with one of the following models.

- GT-702: 1000Base-T to 1000Base-SX (SC)
- GT-702S: 1000Base-T to 1000Base-LX (SC)
- GT-705: 1000Base-T to 1000Base-SX (LC)
- GT-705A: 1000Base-T to 1000Base-SX/LX (SFP slot)
- GT-706A15: 1000Base-T to 1000Base-LX (WDM)
- GT-706B15: 1000Base-T to 1000Base-LX (WDM)
- GT-706A60: 1000Base-T to 1000Base-LX (WDM)
- GT-706B60: 1000Base-T to 1000Base-LX (WDM)

In the following sections, the term "**GT-70X**" indicates the product family above, the term "**MM**" and "**SM**" represent Multi-Mode and Single Mode fiber-optic mode.



Note

Please be noted, GT-706A15/706B15 and GT-706A60/706B60 is designed to work in pairs. It means you must connect GT-706A15 to GT-706B15 or GT-706A60 to GT-706B60 directly, i.e. Ann model to Bnn model. If both ends are A or B models, or one end with any third party device, they can't work normally and may damage the fiber connectors.

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