

1. Product Features

GT-805A Gigabit Ethernet Media Converter:

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX standard
- Data transfer rate: TP – 10/100/1000Mbps; SFP – 100/1000Mbps
- DIP switch for LFP function (Disable/Enable) setting
- 9K jumbo frame supported
- Compliant with PLANET’s 10”/19” media converter chassis

2. Checklist

Your GT-805A carton should contain the following items:

- The Gigabit Ethernet Media Converter
- AC-DC Power Adapter (Output: 5V DC, 2A max.)
- This User’s Manual

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



The GT-805A comes with one vacant SFP module slot. The mini GBIC SFP module is not bundled in the package.

3. Product Outlook

Front View

There are one RJ45 twisted-pair jack (auto-MDI/MDI-X), one 100/1000X SFP fiber-optic slot and four LED indicators. Also one DIP switch for Link-Fault Passthrough (LFP) feature and “ON” to turn on the LLCF and LLR detection. And “OFF” to turn off the feature. Please refer to the following sections for more.

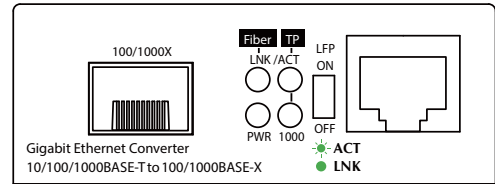


Figure 1: GT-805A Front View

Rear View

The rear panel of the Gigabit Ethernet Media Converter indicates one DC jack, which accepts input power with 5V DC 2A.



Figure 2: GT-805A Rear View

Power Information

The power jack of Gigabit Ethernet Media Converter measures 2.5mm in the central post and requires +5VDC power input. It conforms to the bundled AC-DC adapter and Planet’s Media Chassis. Should you have the issue to make the power connection, please contact your local sales representative.

The AC-DC adapter is used as a spare part when your Gigabit Ethernet Media Converter is installed to a Media Chassis.



2.5mm
DC Receptacle 2.5mm
+5V for each slot
⊖ ⊕

DC receptacle is 2.5mm wide that conforms to the Gigabit Ethernet Media Converter’s 2.5mm DC jack’s central post. Do not install any improper unit.



Note

LFP function is ON by default setting. If you are familiar with the network installation and for diagnostic purpose (i.e. check which end is broken), you can turn it off and reset the converter to make it take effect. Otherwise, please keep it in the default position.

5. Duplex Mode Support

The GT-805A TP port supports triple speed -- 10/100/1000BASE-T, auto-negotiation. It will auto detect the link speed and the duplex mode by default with its link partner. The fiber port (100/1000BASE-FX/SX/LX) allows **100/1000Mbps full duplex** by auto-negotiation. Please also check the setting of the link partner.

6. LED Indication

LED	Color	Description
PWR	Green	Lit: To indicate +5V DC power is detected.
Fiber LNK/ACT	Green	Lit: To indicate the link through fiber port is successfully established. Blinks: To indicate the fiber port is actively sending or receiving data.

4. Link Fault Pass-through (LFP)

The LFP function includes the Link-Fault-Passthrough function (LLCF/LLR) and the DIP Switch design. LLCF/LLR can immediately alarm administrators the issue of the link media and provide efficient solution to monitor the network. The DIP Switch will disable or enable the LFP function.

LLCF (Link Loss Carry Forward) means when a device is connected to the converter and the TP line loses the link, the converter’s fiber will disconnect transmission link. LLR (Link Loss Return) means when a device is connected to the converter and the fiber line loses the link, the converter’s fiber will disconnect.

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10/100/1000BASE-T to 100/1000BASE-X Media Converter

GT-805A



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2350-AA4250-001

Warning:

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.



Energy Saving Note of the Device

This power required device does not support Standby mode operation. For energy savings, please remove the DC plug or slide the hardware-based Power Switch to the OFF position to disconnect the device from the power circuit. Without removing the DC plug from or switching off the device, the device will still consume power from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to power off or to remove the DC plug from the device if this device is not intended to be active.

TP LNK/ACT	Green	Lit: To indicate the link through TP port is successfully established.
		Blinks: To indicate the port is actively sending or receiving data.
TP 1000 LNK/ACT	Green	Lit: To indicate the port is running at 1000Mbps.
		Blinks: To indicate the port is actively sending or receiving data.
		Off: To indicate the port is running at 10/100Mbps.

7. Cable Connection Parameter

The wiring details are shown below:

Duplex	Connection	Limitation (max.)
Twisted Pair		
Half/Full	Node to Node Node to Switch/Hub	100 meters

Fiber Optic Cables:

Standard (Wavelength)	100BASE-FX (1310nm)	1000BASE-SX (850nm)	1000BASE-LX (1310nm)
Fiber Type & Cable Specifications	Multi-mode	50/125µm or 62.5/125µm	Single-mode
		9/125µm	

8. Product Specifications

Model	GT-805A
Fiber Connector	SFP, LC type
Fiber Mode	May vary on module
Fiber Maximum Distance	May vary on module
Copper Connector	10/100/1000Mbps RJ45
Copper Modes	Full duplex, auto-negotiation
Packet Forwarding Rate (64bytes)	14880pps @10Mbps/148810pps @100Mbps/1488000pps @ 1000Mbps
DIP switch	LFP Disable/Enable
Protocols and Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX
Jumbo Packet Size	9K
Dimensions (W x D x H)	97 x 70 x 26 mm
Power	5V DC, 2A max.
Emission	FCC CE
Temperature	Operating: 0 ~ 50°C Storage: -10 ~ 70°C
Humidity	5% ~ 90% non-condensing
Installation	Wall mount, DIN-rail, chassis installation



Note

1. For connection to the Gigabit Ethernet products, please refer to the device's technical manual.
2. Consult your dealer for DIN-rail or chassis installation.