3-Port Gigabit SFP Media Converter

KEY FEATURES

STANDARD

- Complies with IEEE 802.3 10Base-T

- Complies with IEEE 802.3u 100Base-TX

- Complies with IEEE 802.3ab 1000Base-T

- Complies with IEEE 802.3z 1000Base-SX / LX

- IEEE 802.3x Full-Duplex Flow-Control, Back-Pressure in Half-Duplex eliminates packets loss

INTERFACE

- Dual 1000Base-SX / LX SFP Fiber optic, One 10 / 100 / 1000Base-T Copper

- Auto-Negotiation for 10 / 100Base-TX Half-Duplex or 10 / 100Base-TX Full-Duplex

- Supports Auto MDI/MDI-X function

- VLAN Tag, Multicast pass through

- 3-Port data auto-switching

MECHANICAL

- External 5V / 2A DC power supply

- LED indicators for easy network diagnosing

- Compact size

- Wall mounting and DIN-Rail supporting

- Compatible with PLANET media converter chassis MC-700 / MC-1500 series
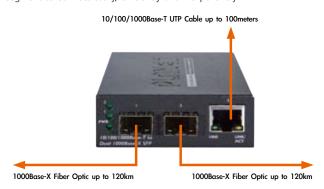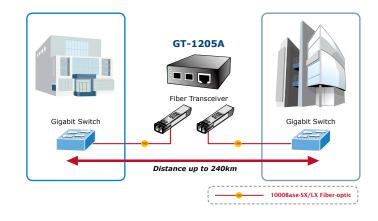
Highly Convenient and Distance Extendable

The GT-1205A Gigabit SFP Media Converter provides one TP and dual SFP ports to support conversion between 10/100/1000Base-T and 1000Base-X network. With the two 1000Base-SX / LX SFP ports, the GT-1205A provides high reliability and flexibility to extend the media transmission distance up to 550 meters, 120km, or longer depending on the 1000Base-SX / LX SFP transceiver modules. It allows the two types of segment to connect easily, efficiently and inexpensively.

10/100/1000Base-T UTP Cable up to 100meters

1000Base-X Fiber Optic up to 120km   1000Base-X Fiber Optic up to 120km

Easy & Chassis Installation

The GT-1205A can be used as a stand-alone unit or as a slide-in module to the PLANET Media Converter Chassis, **MC-700** and **MC-1500** series chassis. The GT-1205A can be fed DC power from these media chassis and help the administrators to maintain the fiber-optic network at one central location. With the 3-Port Switch mode, they work in high performance Store and Forward mechanism, and prevent packet loss with IEEE 802.3x Flow Control (Full-Duplex) and Back Pressure (Half-Duplex) function.

Plug & Play

As the GT-1205A 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-SX / LX, the Gigabit media conversion installation is quite quick and easy by simply plug and play.

GT-1205A

Fiber Transceiver

Gigabit Switch   Gigabit Switch

Distance up to 240km

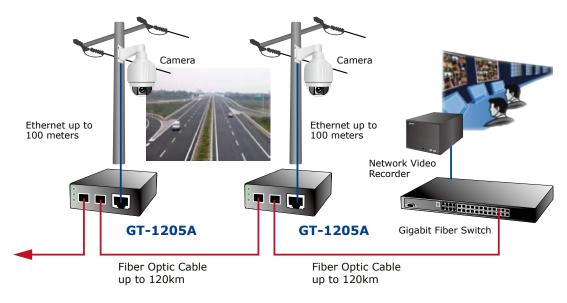1000Base-SX/LX Fiber-optic

Data Sheet

APPLICATIONS

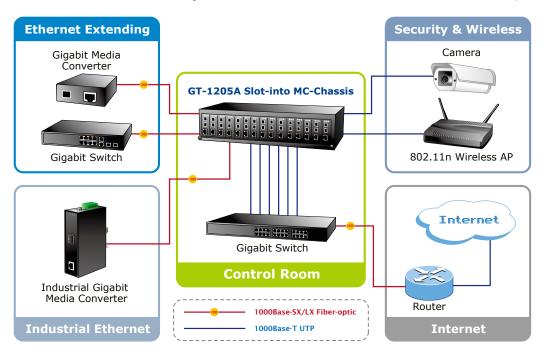### Gigabit Ethernet distance extension

The GT-1205A directly converts the media from the Gigabit fiber to twisted pair interface. For example, it can be applied between the Gigabit Fiber Switch and the Gigabit Copper Network Card to perform media conversion and transmission. With the conversion, you can easily have the transmission distance of Gigabit copper cable extend up to 550 meters or longer (depends on SFP module). Built-in two SFP ports, the GT-1205A can integrate with the existed copper Switch to provide Gigabit fiber transmission without the need of replacing with Gigabit fiber switch. By the GT-1205A bringing Gigabit fiber transmission, it enables video stream be delivered from the camera up to 120km away to local Network Video Recorder.

Extending Ethernet Distance

Camera

Camera

Ethernet up to
100 meters

Ethernet up to
100 meters

Network Video
Recorder

GT-1205A

GT-1205A

Gigabit Fiber Switch

Fiber Optic Cable
up to 120km

Fiber Optic Cable
up to 120km

Fiber-optic Networking for ISP, System Integrator, Enterprise, and Home

With high performance of data transmission and easy installation, the GT-1205A can build the ISP network solution of FTTH (Fiber to the Home), FTTC (Fiber to the Curb) and FTTB (Fiber to the Building). The GT-1205A is also ideal for small office network environment of enterprises.

Ethernet Extending

Gigabit Media
Converter

Gigabit Switch

Security & Wireless

Camera

GT-1205A Slot-into MC-Chassis

802.11n Wireless AP

Industrial Gigabit
Media Converter

Gigabit Switch

Control Room

Internet

Router

Industrial Ethernet

Internet

1000Base-SX/LX Fiber-optic

1000Base-T UTP

SPECIFICATION

Product	10/100/1000Base-T to 1000Base-X SFP Media Converter (1 TP, 2 SFP)	
Model	GT-1205A	
Hardware Specification		
Ports	Copper	1 x 10 / 100 / 1000Base-T port
	Fiber	2 x 1000Base-SX / LX SFP interfaces
Optic Interface		SFP
Cable	Twisted-pair	■ 10Base-T: 2-Pair UTP CAT. 3, 4, 5, up to 100 meters ■ 100Base-TX: 2-Pair UTP CAT. 5, 5e up to 100 meters ■ 1000Base-T: 4-Pair UTP CAT. 5e, 6 up to 100 meters
	Fiber-optic cable	■ 50 / 125μm or 62.5 / 125μm multi-mode fiber cable, up to 220 & 550 meters ■ 9 / 125μm single-mode cable, provide long distance for 10 / 15 / 20 / 30 / 40 / 50 / 60 / 70 / 120km or longer (very on SFP module)
Switch Processing Scheme		Store-and-Forward
Switching Fabric		6Gbps / non-blocking

LED indicator		**System:** One Power LED
		TP Port :
		    One Speed (On: 1000Mbps; Off: 10 / 100Mbps),
		    One LNK / ACT
		Fiber Port: Two LNK / ACT LEDs

Dimension (W x D x H)		94 x 70 x 26 mm
Weight		191g (device only)
Power Requirement		5V DC, 2A max.
Power Consumption		5.4Watts / 18.5 BTU per hour max.
Standards		IEEE 802.3, 10Base-T IEEE 802.3u, 100Base-TX IEEE 802.3ab, 1000Base-T IEEE 802.3z, 1000Base-SX / LX IEEE 802.3x, Flow Control

ORDERING INFORMATION

GT-1205A	10/100/1000Base-T to 1000Base-X SFP Media Converter (1 TP, 2 SFP)

RELATED SFP MODULES

MGB-GT	SFP-Port 1000Base-T mini-GBIC module – 100 meters
MGB-SX	SFP-Port 1000Base-SX mini-GBIC module – 550 meters
MGB-LX	SFP-Port 1000Base-LX mini-GBIC module – 10KM
MGB-L30	SFP-Port 1000Base-LX mini-GBIC module – 30KM
MGB-L50	SFP-Port 1000Base-LX mini-GBIC module – 50KM
MGB-L70	SFP-Port 1000Base-LX mini-GBIC module – 70KM
MGB-L120	SFP-Port 1000Base-LX mini-GBIC module – 120KM
MGB-LA10	SFP-Port 1000Base-LX mini-GBIC module – LC WDM(TX:1310nm), SM, 10KM
MGB-LB10	SFP-Port 1000Base-LX mini-GBIC module – LC WDM(TX:1550nm), SM, 10KM
MGB-LA20	SFP-Port 1000Base-LX mini-GBIC module – LC WDM(TX:1310nm), SM, 20KM
MGB-LB20	SFP-Port 1000Base-LX mini-GBIC module – LC WDM(TX:1550nm), SM, 20KM
MGB-LA40	SFP-Port 1000Base-LX mini-GBIC module – LC WDM(TX:1310nm), SM, 40KM
MGB-LB40	SFP-Port 1000Base-LX mini-GBIC module – LC WDM(TX:1550nm), SM, 40KM

RELATED ACCESSORY

RKE-DIN	Din-Rail Kit For Media Converter