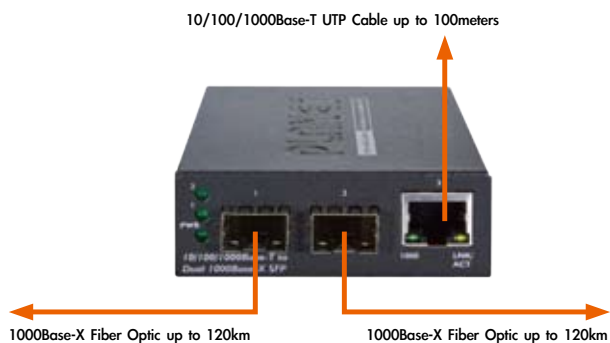


# 3-Port Gigabit SFP Media Converter



### 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.



### 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.

## KEY FEATURES

### STANDARD

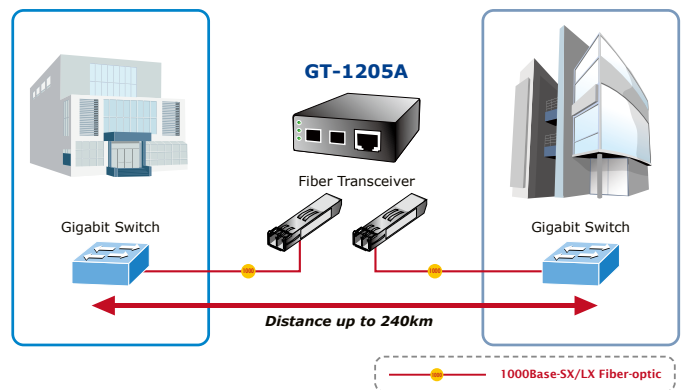
- Complies with IEEE 802.3 10Base-T
- Complies with IEEE 802.3u 100Base-TX
- Complies with IEEE 802.3ab 1000Base-T
- Complies with IEEE 802.3z 1000Base-SX / LX
- IEEE 802.3x Full-Duplex Flow-Control, Back-Pressure in Half-Duplex eliminates packets loss

### 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

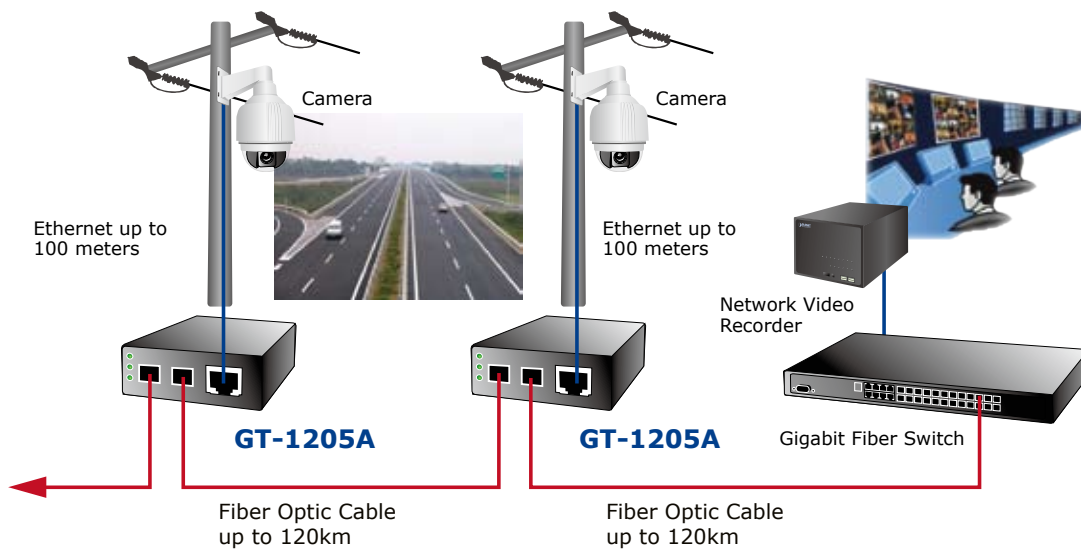


**APPLICATIONS**

*Gigabit Ethernet distance extension*

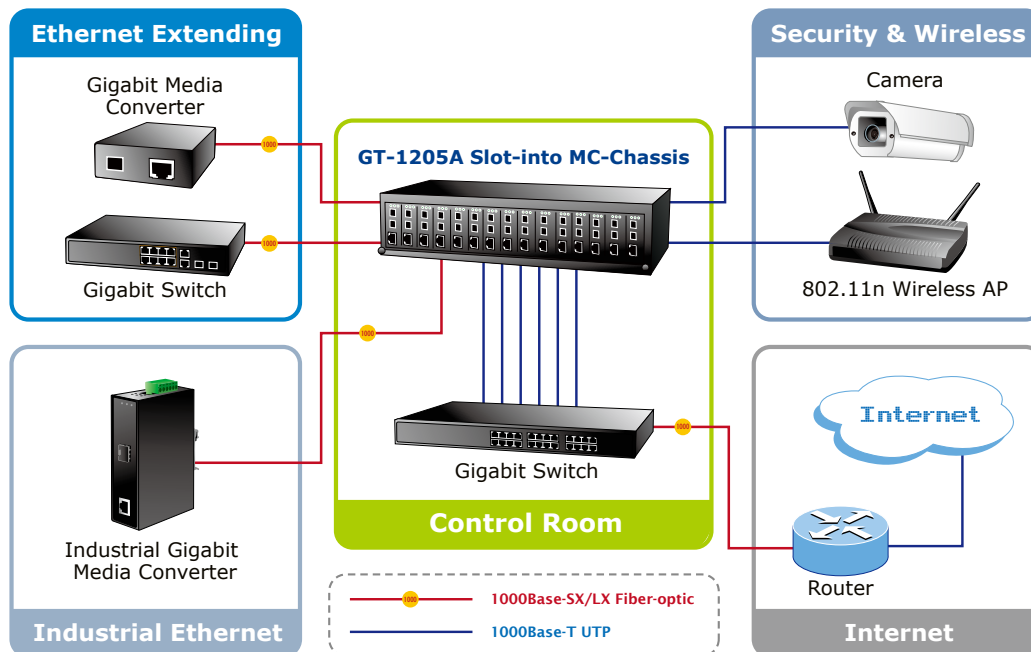
The GT-1205A directly converts the media from the Gigabit fiber to twisted pair interface. For example, it can be applied between the Gigabit Fiber Switch and the Gigabit Copper Network Card to perform media conversion and transmission. With the conversion, you can easily have the transmission distance 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**



*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.



**SPECIFICATION**

|                               |   |  |
|-------------------------------|---|--|
| Product                       | 10/100/1000Base-T to 1000Base-X SFP Media Converter (1 TP, 2 SFP)                 |  |
| Model                         | GT-1205A  |  |
| <b>Hardware Specification</b> |   |  |
| Ports                         | Copper  | 1 x 10 / 100 / 1000Base-T port   |
|                               | Fiber   | 2 x 1000Base-SX / LX SFP interfaces  |
| Optic Interface               | SFP   |  |
| Cable                         | Twisted-pair  | <ul style="list-style-type: none"> <li>■ 10Base-T: 2-Pair UTP CAT. 3, 4, 5, up to 100 meters</li> <li>■ 100Base-TX: 2-Pair UTP CAT. 5, 5e up to 100 meters</li> <li>■ 1000Base-T: 4-Pair UTP CAT. 5e, 6 up to 100 meters</li> </ul>  |
|                               | Fiber-optic cable   | <ul style="list-style-type: none"> <li>■ 50 / 125µm or 62.5 / 125µm multi-mode fiber cable, up to 220 &amp; 550 meters</li> <li>■ 9 / 125µm single-mode cable, provide long distance for 10 / 15 / 20 / 30 / 40 / 50 / 60 / 70 / 120km or longer (very on SFP module)</li> </ul> |
| Switch Processing Scheme      | Store-and-Forward   |  |
| Switching Fabric              | 6Gbps / non-blocking  |  |
| LED indicator                 | <b>System:</b> One Power LED  |  |
|                               | <b>TP Port :</b><br>One Speed (On: 1000Mbps; Off: 10 / 100Mbps),<br>One LNK / ACT |  |
|                               | <b>Fiber Port:</b> 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 |
|---------|----------------------------------|