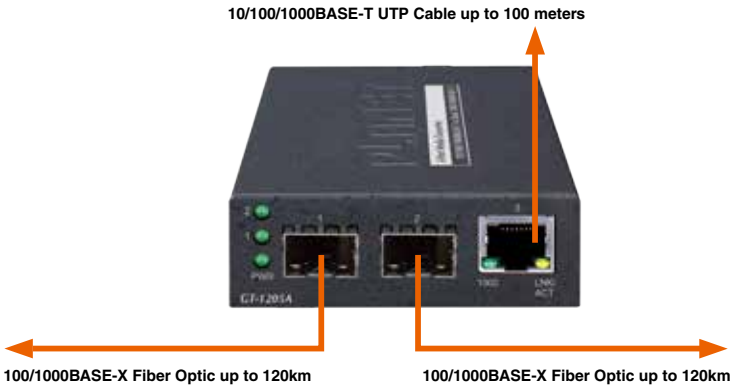
10/100/1000BASE-T to Dual 100/1000BASE-X SFP Media Converter

PLANET GT-1205A Gigabit SFP Media Converter is upgraded by providing **dual SFP slots; accept 100FX or 1000X SFP module**, and other features shown below:

- **DIP Switch for 100FX or 1000X SFP module supports on dual SFP slots**
- **DIP Switch for 3-port Operation in Gigabit Switch Mode or Redundant Mode**
- **Redundant Hardware Fiber Port**

Highly Convenient and Distance Extendable

The GT-1205A is equipped with one 10/100/1000BASE-T port and dual SFP slots to support conversion between 10/100/1000BASE-T and 100/1000BASE-X network. The dual SFP slots make the Ethernet signals connect easily and efficiently by adding single-mode or multi-mode media modules or the combination of both types. The GT-1205A provides high reliability and flexibility to extend the media transmission distance up to 550m or 2km (multi-mode fiber) and 10km or longer 20/40/80/120 kilometers (single-mode fiber or WDM fiber), depending on the optional **100**/1000BASE-SX/LX SFP modules.



Standard

- Complies with IEEE 802.3 10BASE-T
- Complies with IEEE 802.3u 100BASE-TX/100BASE-FX
- 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 eliminate packets loss

Interface

- Dual **100BASE-FX**/1000BASE-SX/LX SFP fiber-optic slots
- One 10/100/1000BASE-T Copper, auto MDI/MDIX function
- Auto-negotiation for 10/100/1000BASE-T; half-duplex or full-duplex for 10Mbps and 100Mbps, full-duplex for 1000Mbps
- Supports maximum frame size up to 10K jumbo packet size
- IEEE 802.1Q Tag VLAN transparent, multicast pass through

Redundancy

- Link status auto-detecting and redundant on dual ports with the same connector type
- Allows only the Primary-Port or the Backup-Port to activate at a time
- When the Primary-Port link fails occurs, the traffic swaps to Backup-Port automatically
- Once the Primary-Port link regains, the traffic swaps from the Backup-Port to the Primary-Port
- Hardware fiber port redundant

Mechanical

- External 5V/2.5A DC power supply
- LED indicators for easy network diagnose
- **DIP switch for 100FX or 1000X SFP module supports on dual SFP slots**
- DIP switch for 3-port operation in Gigabit switch mode or redundant mode
- Compact in size, easy installation
- Co-works with PLANET 10"/19" Media Converter Chassis (MC-700/MC-1500/MC-1500R/MC-1500R48)
- Wall mounting and DIN-Rail installation supported

Adjustable DIP Switch for 100FX or 1000X SFP Module Selection

Via the built-in DIP switch on rear panel, the GT-1205A can be configured as supports 100BASE-FX SFP module or 1000BASE-X SFP module on its dual SFP slots, the GT-1205A can be connected over fiber optic cabling at a distance extended from 550 meters to 2km (multi-mode fiber) to 10/20/40/80/120 kilometers (single-mode fiber or WDM fiber), using the PLANET MFB/MGB series 100/1000BASE-X SFP modules.

Adjustable 3-Port Switch Mode or 2 Fiber Port Redundant Mode

Via the built-in DIP switch, the GT-1205A can be configured as 3-port Ethernet switch or 2-port redundant media converter. In the 3-port switch mode, the GT-1205A can operate in Store-and-Forward mechanism with high performance; on the other hand, when in the 2-port redundant mode, it provides rapid fiber redundancy of link for highly critical Ethernet applications. The redundant mode also supports auto-recovering function. If the destination port of a packet is link-down, it will forward the packet to the other port of the backup pair.

Easy Deployment Standalone or with Chassis

The GT-1205A Gigabit Media Converter can be used as a standalone unit or as a slide-in module to the PLANET Media Converter Chassis, **MC-700** and **MC-1500** chassis series. These media chassis can assist in providing DC power to the GT-1205A Gigabit Media Converter and the fiber-optic network can be maintained 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 Installation

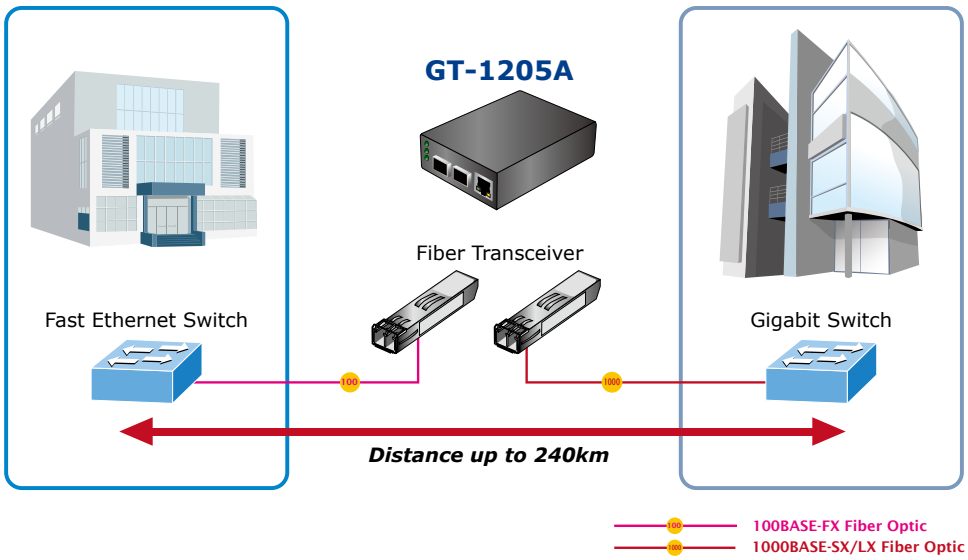
As the GT-1205A Gigabit Media Converter fully complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/**FX**, IEEE 802.3ab 1000BASE-T and IEEE 802.3z 1000BASE-LX/SX, the Gigabit media conversion installation is quite quick and easy simply by using the plug and play feature.

Applications

Gigabit Ethernet Distance Extension

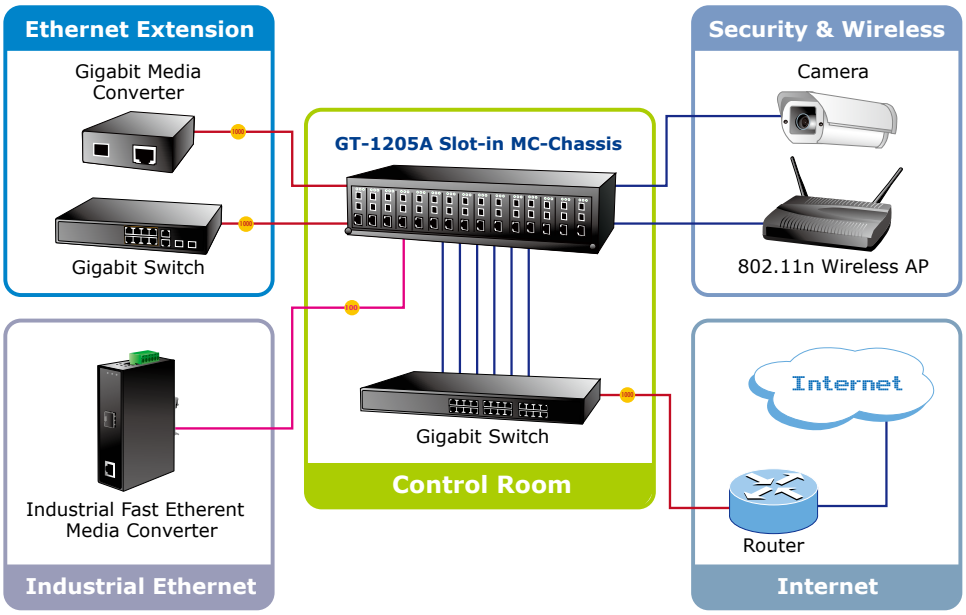
The GT-1205A directly converts the media from the Gigabit fiber to twisted pair interface. For example, it can be applied between the Gigabit Fiber Switch and the Gigabit Copper Network Card to perform media conversion and transmission.

With the conversion, you can easily have the transmission distance of Gigabit copper cable extended up to 550 meters or longer (depending on SFP module). Built in with two SFP ports, the GT-1205A can integrate with the existing copper switch to provide Gigabit fiber transmission without the need of replacing with the Gigabit Fiber Switch. With the Gigabit fiber transmission, the GT-1205A enables video stream to be delivered from the camera up to 120km away to local Network Video Recorder.



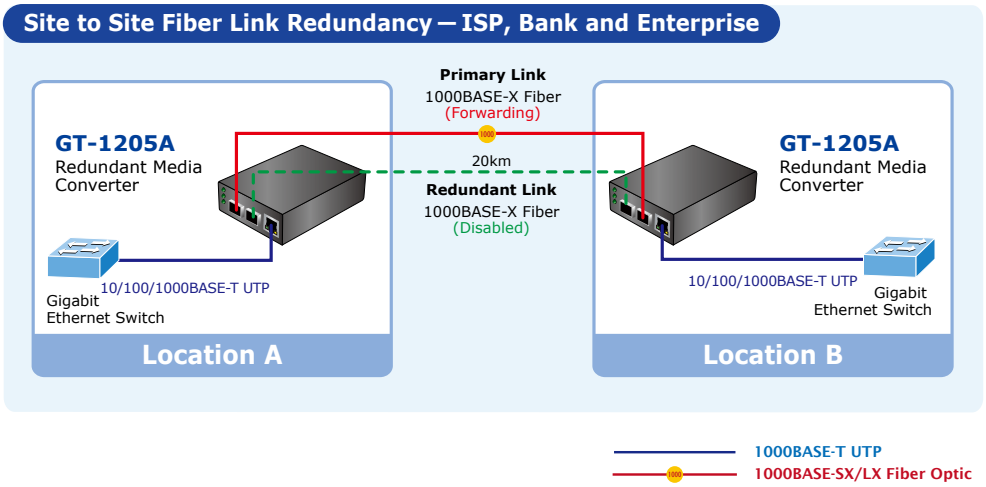
Fiber-Optic Networking for ISPs, System Integrators, Enterprises and Homes

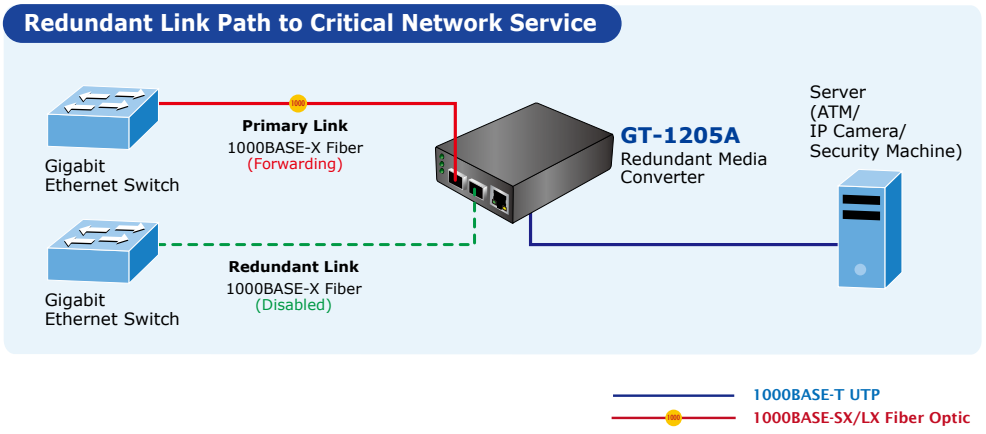
With high performance of data transmission and easy installation, the GT-1205A can build the ISP network solution of FTTH (Fiber to the Home), FTTC (Fiber to the Curb) and FTTB (Fiber to the Building). The GT-1205A is also ideal for small office network environment of enterprises.



Fault Tolerant Redundant Link for Critical Network Applications

The GT-1205A is designed for optical fiber networks that require rapid link redundancy. With the auto-recovering feature, the redundant media converter responses rapidly for critical applications.





Specifications

Model		GT-1205A
Hardware Specifications		
Hardware Version		4
Ports	Copper	1 x 10/100/1000BASE-T port
	Fiber	2 x 100/1000BASE-X SFP slots
Cable	Twisted-pair	10BASE-T: 2-pair UTP Cat3,4,5, 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	**1000BASE-SX:** 50/125μm or 62.5/125μm multi-mode fiber cable, from 220 and 550 meters to 2km. **1000BASE-LX:** 9/125μm single-mode cable, with distance for 10/20/40/80/120km (vary on SFP module) **100BASE-FX:** 50/125μm or 62.5/125μm multi-mode fiber cable, up to 2km(vary on SFP module) 9/125μm single-mode cable, with distance for 20/40/60km (vary on SFP module)
Hardware Specifications		
Switch Architecture		Store and Forward
Flow Control		Back pressure for Half duplex. IEEE 802.3x pause frame for Full duplex
Fabric		6Gbps
Throughput (packet per second)		4.4Mpps
Maximum Packet Size		10K bytes
LED Display		**System**: One Power LED (Green) **Fiber Port**: Two LNK/ACT LED (Green) **TP Port** : One Speed LED (Green) , One LNK/ACT LED (Orange)
Dimensions (W x D x H)		**94 x 70 x 26mm**
Weight		**180g (device only)**
Power Requirement		5V DC, 2A max.
Power Consumption		2.8watts/9.5BTU per hour max.
Environment		
Operating environment		0 ~ 50 degrees C
Storage environment		-10 ~ 70 degrees C
Operating Humidity		5 ~ 95%, relative humidity (non-condensing)
Storage Humidity		5 ~ 95%, relative humidity (non-condensing)
Standard Conformance		
EMI Safety		FCC Class B, CE
Standard Compliance		IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX 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 Dual 100/1000BASE-X SFP Media Converter

Accessory

RKE-DIN	Din-rail Kit For Media Converter

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