

## Giga Media Converter Prototype for SI-POF

### Data Sheet

Layer 2, 1000Base-T for  
UTP to SI-POF (Step Index  
Plastic Optical Fiber)  
Network Media Converters.  
Provides Giga-Speed  
SI-POF for Networking  
Devices.



### Overview

The Giga Media Converter Prototype for **SI-POF** is 100/1000Base-T UTP (Unshielded Twisted Pair) to 1000 HS-BASE-P, 650nm SI-POF (Step Index Plastic Optical Fiber) converter. The Giga Media Converter Prototype for SI-POF includes Ethernet (RJ-45) connectors and gigabits POF transceivers. It supports full-duplex and high-speed data transmission on SI-POF Cable.

It is 1000 HS-BASE-P, Wavelength 650nm at optical side; through particular solution make this Giga Media Converter could fully support 1000Mbps. This product is really plug-and-play and unnecessary any additional settings.

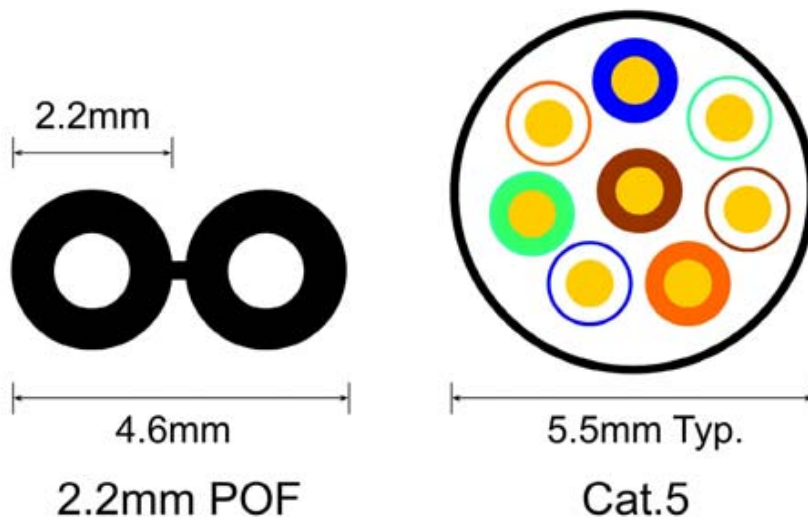
The Giga Media Converter Prototype for SI-POF is fully compatible for 802.3ab Gigabit Ethernet and 802.3 HS-BASE-P Fast Ethernet data communication standard. Their solutions are in any Fast Ethernet LAN, FTTH or xDSL applications.

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## Key Features

- (1) Fully comply with IEEE 802.3ab & IEEE 802.3 HS-BASE-P, 650nm, 100/1000Base-T and 1000Base-X.
- (2) Support one 10/100/1000Base-T RJ-45 port and one 1000 HS-BASE-P, 650nm POF transceiver.
- (3) **Transmit throughput fully support 100/1000Mbps.**
- (4) Transmit signal up to **50 meters SI-POF.**
- (5) Display converter status by LED indicators.
- (6) Support 10/100/1000Mbps and full/ half-duplex operation at RJ-45 port.
- (7) Support 100/1000Mbps and full duplex operation at fiber port.
- (8) Very low power consumption.
- (9) Plug-and-play and easy installation.
- (10) SI-POF cable and RJ-45 cable O.D. comparison:

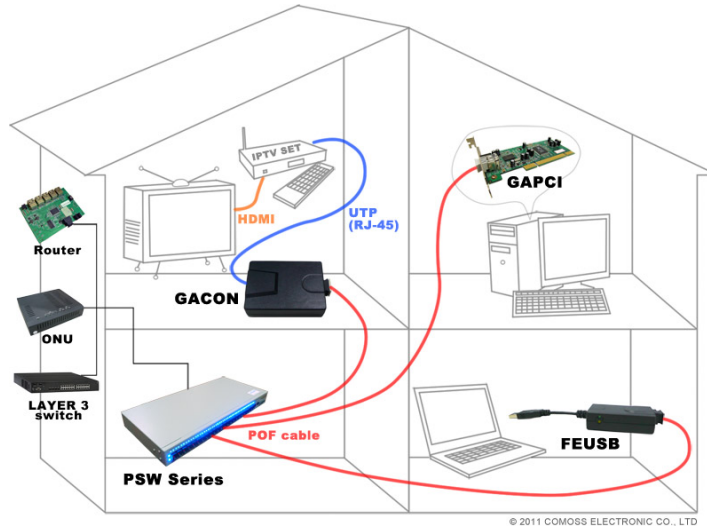


## Specification

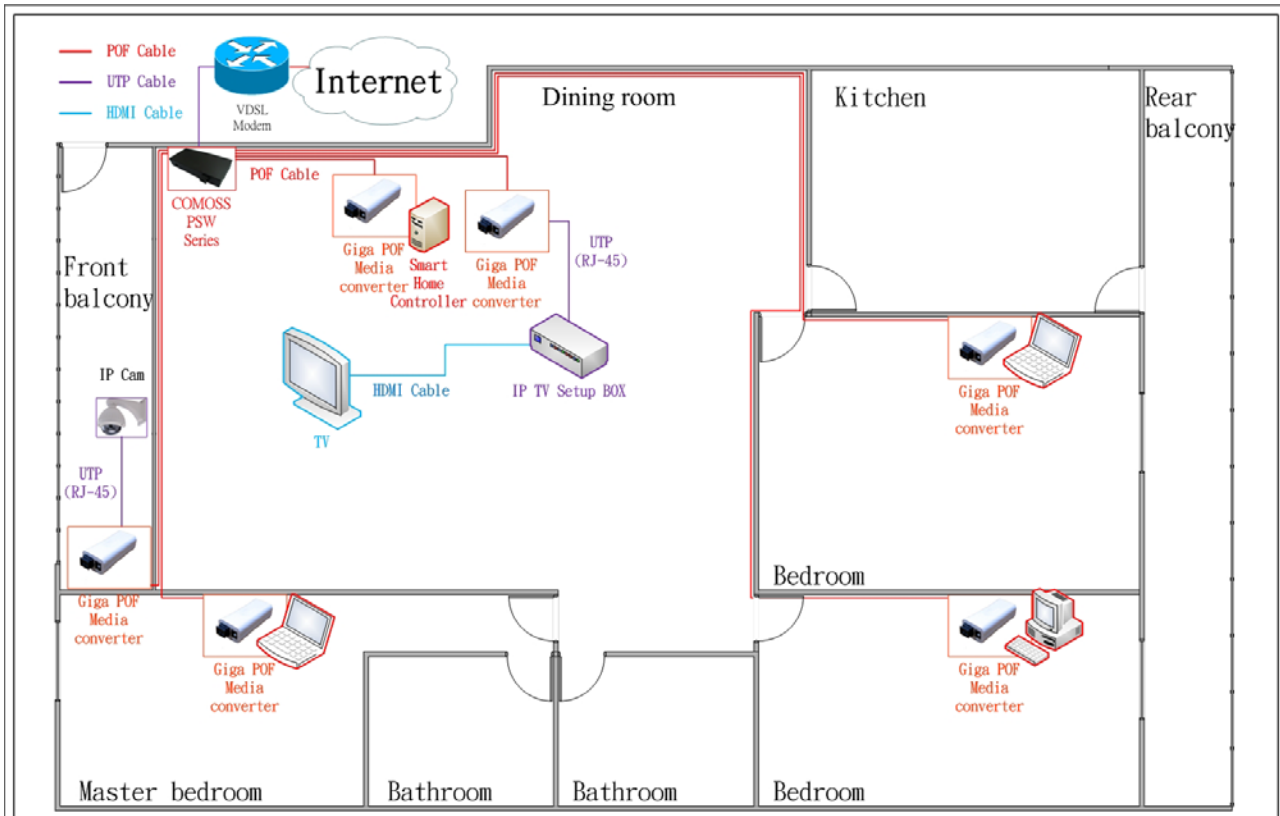
Parameter	Optical Port	Electrical Port
Standard compatibility	1000 HS-Base-P, 650nm	1000Base-T
Data Rate	100/1000 Mbps	10/100/1000 Mbps
Transmitting Length	50 Meters maximum at SI-POF interface.	100 Meters maximum at copper interface
Interface connector	POF transceiver	RJ-45 connector
Equipped cable	POF patch cord	4 pairs CAT5e/CAT6 UTP patch cord
Transmit throughput	100/1000Mbps.	
LED Indication	Power status, POF/UTP port link/active status.	
Operating Environment	1. Temperature: 0~45 °C 2. Humidity: 10%~85%	
Storage Environment	1. Temperature: -40~70 °C 2. Humidity: 10%~85%(Non-condensing)	
Operating Power	5V @ 1.2A Max.	
Power Consumption	1.3 W Max.	
DC Power Connector	OD: 4, ID: 1.1 mm DC plug suitable	
Dimensions W x D x H	32.7mm x 78.9mm x 23mm.	
Weight	30g.	
EMC Certification	1. FCC certification: Part 15 Subpart B. 2. CE certification: EN55022/ 55024/ 61000/ 62471.	

## Application

Home Networking, IP Camera, IP Phone, IP TV, Smart Home Devices.



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POF Home Network Application structure



## Order Information

GACON - X X X  
(1) (2) (3)

### (1) Converter Type :

- A: Giga Transceiver.

### (2) Converter Type :

- 2 : One 2.2mm AVAGO<sup>®</sup> Transceiver (Black Color)

### (3) Color of Case :

- 1 : With matte white Case.
- 2 : With glossy white Case.