

# Gigabit Network Fiber Optic Transceiver



## **UT-2604G Series**

Gigabit Network Fiber Optic Transceiver



- Adopt high quality photo-integrated modules to provide good optical and electrical characteristics, ensure reliable data transmission and long lifecycle
- Supports full-duplex and half-duplex, auto MDI/MDI-X
- Auto-10/100Mbps
- Fully automatic recognition of network interface, no need to manually operate switches
- Plug and play for easy access
- Operating temperature: -40~85 °C
- Input voltage:12/24/48VDC(10.8~52.8VDC), supports reverse polarity protection
- Support various fiber optic interfaces(SC/ST/FC/SFP)



## OVERVIEW

UT-2604G series is a Gigabit network fiber optic transceiver. It provides 4-ch 100Base-T Ethernet ports and 1-ch 1000Base-X port; it is used for Ethernet port and optical cable data communication, it is suitable for the scenarios of intelligent community or FTTO. The operating temperature is - 40 ~ 85 °C. With good EMC performance, it guarantees the device work normally in the harsh environment. The device greatly extends the transmission distance, it can easily realize the interconnection between host, repeaters, hubs, and the terminal. It provides safe and reliable solutions on video monitoring, finance, education and other industries networking.

## SPECIFICATION

### Protocol Standards

IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x

### Transmission Distance

Cat.5e: 100m

Patch cord

Single-mode: 1310nm 20/40/60Km

1550nm 80/100/120Km

Multi-mode: 1310nm 2Km

### Switching Performance

Forwarding rate: 1488095pps

Transmission mode: store and forward

MAC address size: 1K

Cache size: 1Mb

Backplane bandwidth: 12G

Max. frame length: 10KB

### Interfaces

Fiber interfaces: 1x1000Base -X ports (SC/FC/ST)

RJ45 interfaces: 4x10/100/1000 Base-T ports auto MDI/MDI-X

Index parameter	1000Base-X			
	Multi-mode	Single-mode		
Dual fiber transmitting and receiving wavelength	1310	1310	1310	1550
Send single fiber (T style)	Send the wavelength nm	1310	1310	1490
	Reveice the wavelength nm	1550	1550	1550
Receive single fiber (R style)	Send the wavelength nm	1550	1550	1550
	Reveice the wavelength nm	1310	1310	1490
Transmission distance Km	2	20	40	80
Transmit power dBm	-6~-1	-9~-3	-2~-3	-2~-3
Receive sensitivity dBm(s)	-21	-23	-23	-24
Optical saturation dBm	0	-3	-3	-3
Optical loss dBm/km	0.5	0.5	0.3	0.25
Electrical port data transmission rate	10/100/1000Mbps			

For example: UT-2604GRSM-SC-40, "R" is receiving single fiber, "SM" is single mode, "SC" fiber interface type is SC head, "40" transmission km for 40km

Fiber core diameter:

Multi-mode: 50/125, 62.5/125

Single-mode: 8.3/125, 9/125, 10/125.

**Power Requirement**

Voltage input: 12/24/48VDC(10.8~52.8VDC)  
 Power Consumption: 200mA@24Vmax  
 Interface terminal: One pluggable 3-pin terminal block  
 Overload protection: Support  
 Reversal protection: Support

**Mechanical Characteristics**

IP protection level: IP40  
 Installation: DIN-Rail /Wall Mounted

**Mechanical Dimension**

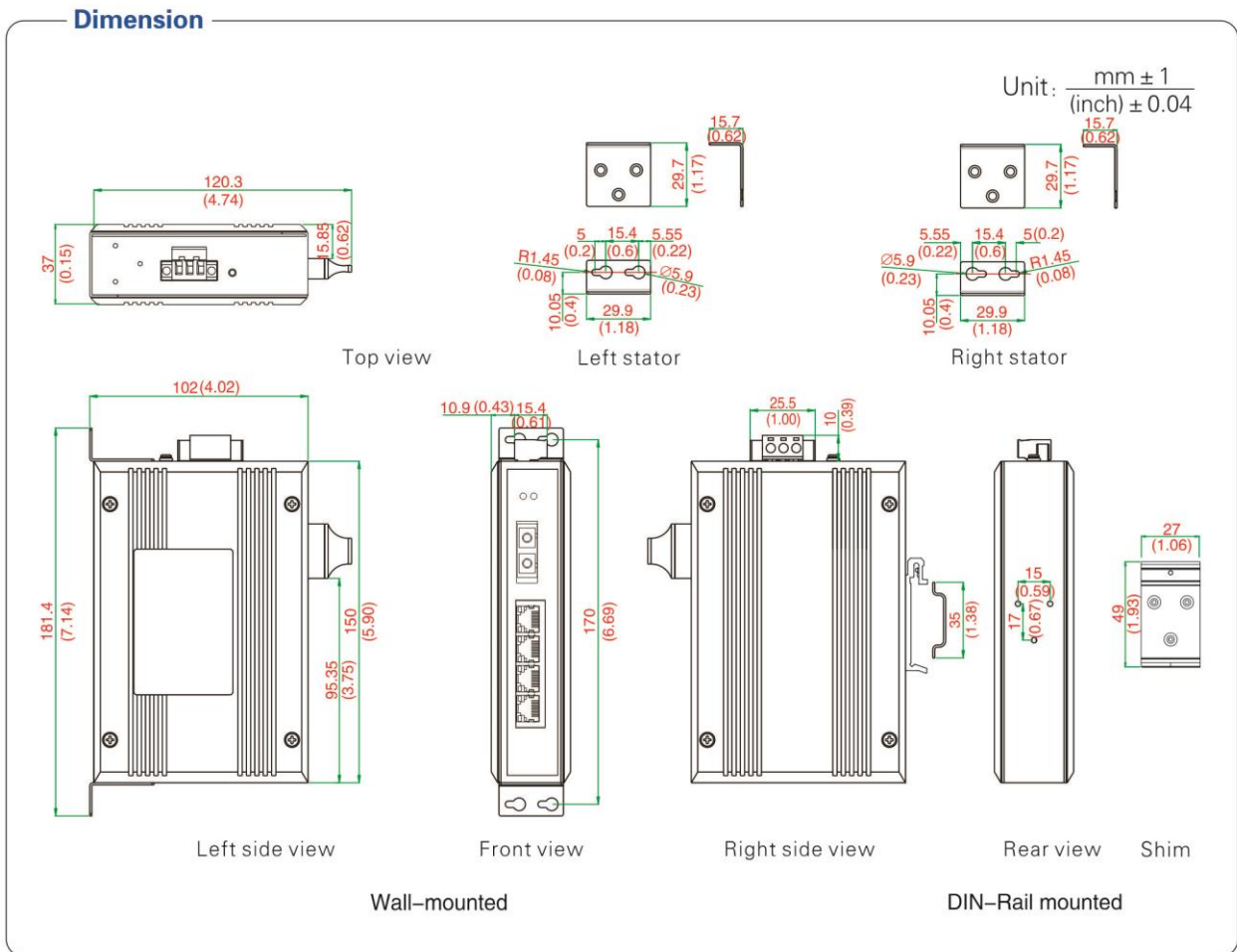
Dimension (W x H x D): 150mm x 100mm x 37mm  
 Package dimension: 250mm x 205mm x 55mm  
 Weight: 850g

**Operating Environment**

Operating temperature: -40°C~85°C  
 Storage temperature: -40°C~85°C  
 Relative humidity: 0~95%

**Industrial Standards**

EMI:  
 FCC Part 15, CISPR (EN55022) class A  
 EMS:  
 IEC(EN)61000-4-2(ESD)  
 IEC(EN)61000-4-3(RS)  
 IEC(EN)61000-4-4(EFT)  
 IEC(EN)61000-4-5(Surge)  
 IEC(EN)61000-4-6(CS)  
 IEC(EN)61000-4-8  
 IEC 60068-2-27(Shock)



**ORDER INFORMATION**

Model	Interface description		Optical port type
	10/100/1000Base-T	1000Base-X	
UT-2604GSM-SC	4	1	Single mode dual fiber (SC)
UT-2604GSM-ST	4	1	Single mode dual fiber (ST)
UT-2604GSM-FC	4	1	Single mode dual fiber(FC)
UT-2604GMM-SC	4	1	Multimode dual fiber (SC)
UT-2604GMM-ST	4	1	Multimode dual fiber (ST)
UT-2604GMM-FC	4	1	Multimode dual fiber (FC)
UT-2604GP	4	1	SFP slot