Gigabit Network Fiber Transceiver

UT-2602G

2-port Gigabit network fiber transceiver

- Adopt high quality optoelectronic integrated modules to provide good optical and electrical characteristics, ensure reliable data transmission and long lifecycle
- Supports full-duplex and half-duplex, auto negotiation
- Auto-10/100/1000Mbps
- Fully automatic recognition of network interface
- Plug and play for easy access
- Operating temperature: -40 ~ 85℃
- Input voltage:12/24/48VDC(10.8~52.8VDC), supports reverse polarity protection
- Support various fiber optic interfaces(SC/ST/FC/SFP)

OVERVIEW

UT-2602G series is a Gigabit network fiber optic transceiver, providing two 10/100/1000Base-T Ethernet ports and one 1000Base- X optical port; it is used for Ethernet port and optical cable data communication, it is suitable for the scenarios of intelligent community or FTTD(fiber to the desk).The series of products support -40 ~ 85 ℃ operating temperature and good EMC performance to ensure normal operation in harsh environments, the series will greatly extend the distance of network transmission, can easily achieve the interconnection between the main board server, repeater, hub, terminal and terminal, for video surveillance, finance, education and other industries to build a network to provide cost-effective, safe and reliable solutions.

SPECIFICATION

Protocol Standards

IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ab, IEEE802.3x

Interfaces

Fiber interfaces: 1*1000Base-X（SC/FC/ST）

RJ45 interface: 2*10/100/1000Base-T, auto detection, full/half-duplex, auto MDI/MDI-X

Switching Performance

Forwarding Rate: 1488095pps

Transmission mode: store and forward

MAC address size: 1K

Cache size: 1Mb

Backplane bandwidth: 12G

Max. frame length: 10KB

Operating Environment

Operating temperature: -40 ~ 85℃

Storage temperature: -40 ~ 85℃

Relative humidity: 0 ~ 95% (non-condensing)

Mechanical Characteristics

IP protection level: IP40

Installation: DIN-Rail Mounted

LED indicator light: PWR, FDX.

Index parameter		1000Base-FX			
		Multi-	Singal-mode		
Dual fiber transmitting and		1310	1310	1310	1550
Send signal fiber (T type)	Send the	1310	1310	1310	1490
	Receive the	1550	1550	1550	1550
Receive signal fiber (R type)	Send the	1550	1550	1550	1550
	Receive the	1310	1310	1310	1490
Transmission distance Km		2	20	40	80
Transmit power dBm		-6~-1	-9~-3	-2~3	-2~3
Receive sensitivity dBm(≤)		-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 trasmission		10/100/1000Mbps			

For example: UT-2602GRSM-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：100mA@24Vmax

Terminal block: One pluggable 3-pin terminal block

Overload protection: Support

Reversal protection: Support

Mechanical Dimension

Dimension (W x H x D): 100mm x 80mm x 35mm

Weight: 0.47Kg

Packaging dimension: 180mm x 140mm x 45mm

Industrial Standards

EMI:

FCC Part 15 Subpart B class A, 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)
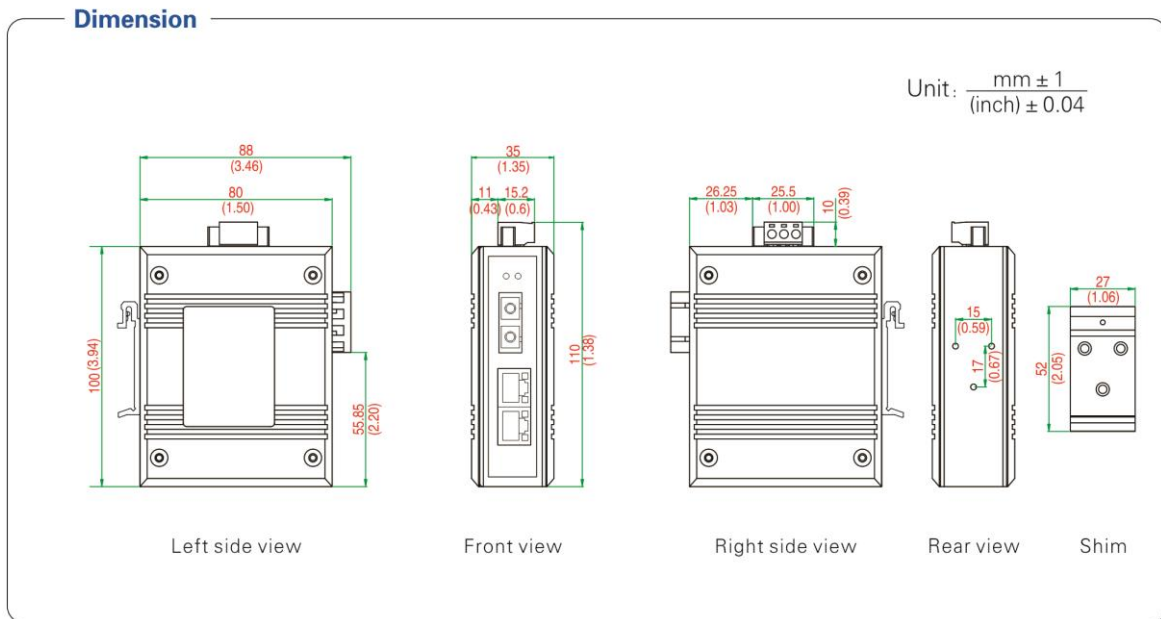
ORDERING

Model	Interface		Optical port description
	10/100/1000Base-TX	1000Base-FX	
UT-2602GSM-SC	2	1	Single-mode dual-fiber SC
UT-2602GSM-ST	2	1	Single-mode dual-fiber ST
UT-2602GSM-FC	2	1	Single-mode dual-fiber FC
UT-2602GMM-SC	2	1	Multi-mode dual-Fiber SC
UT-2602GMM-ST	2	1	Multi-mode dual-Fiber ST
UT-2602GMM-FC	2	1	Multi-mode dual-Fiber FC
UT-2602GP	2	1	SFP

Remarks:

1. Single-mode dual-fiber SC port is a standard configuration for products above mentioned, with optional ST/FC

2. The suffix "F" in "MNF" means 12/24/48VDC（10.8~52.8VDC）power input;

The suffix "D" in "MND" means 110/220VAC/DC（88~264VAC/DC）dual power input