100M Network Fiber Optic Transceiver

UT-2604 Series

4-Port 100M Network Fiber Optic Transceiver

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- 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-10/100Mbps
- Fully automatic recognition of network interface
- 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-2604 series is a 100M network fiber optic transceiver, providing 4 10/100Base-TX Ethernet ports and 1 100Base- FX 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°C work 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 form a network to provide cost-effective, safe and reliable solutions.

SPECIFICATION

Protocol Standards

IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX & 100Base-FX, IEEE 802.3x

Interfaces

Fiber interfaces: 1*100Base-FX（SC/FC/ST）

RJ45 interface: 4*10/100Base-TX, auto detection, full/half-duplex, auto MDI/MDI-X

Transmission Distance

Cat.5e: 100m

Patch cord

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

1550nm 80/100/120Km

Multi-mode: 1310nm 2Km

Operating Environment

Operating temperature: -40 ~ 85℃

Storage temperature: -40 ~ 85℃

Relative humidity: 0 ~ 95%

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Mechanical Characteristics

IP protection level: IP40

Installation: DIN-Rail/Wall Mounted

LED indicator light

PWR power light, FDX fiber indicator, RJ-45 indicator for ports 1~4

Index parameter		100Base-X			
		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		-15~-8	-15~-8	-5~0	-5~0
Receive sensitivity dBm(≤)		-32	-34	-34	-34
Optical saturation dBm		-3	-3	-3	-3
Optical loss dBm/Km		0.5	0.5	0.3	0.25
Electrical port data trasmission		10/100Mbps			

For example: UT-2604RSM-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.

Switching Performance

Forwarding Rate: 148,810pps

Transmission mode: store and forward

MAC address size: 1K

Cache size: 0.5Mb

Backplane bandwidth: 1.2G

Power Requirement

Voltage input: 12/24/48VDC(10.8~52.8VDC)

Power consumption：200mA@24Vmax

Terminal block: One pluggable 3-pin terminal block

Overload protection: Support

Reversal protection: Support

Mechanical Dimension

Dimension (W x H x D): 150mm x 100mm x 37mm

Packaging dimension: 250mm x 205mm x 55mm

Industrial Standards

EMI:

FCC Part 15 Subpart B classA, EN55022 class A

EMS:

IEC(EN)61000-4-2(ESD)
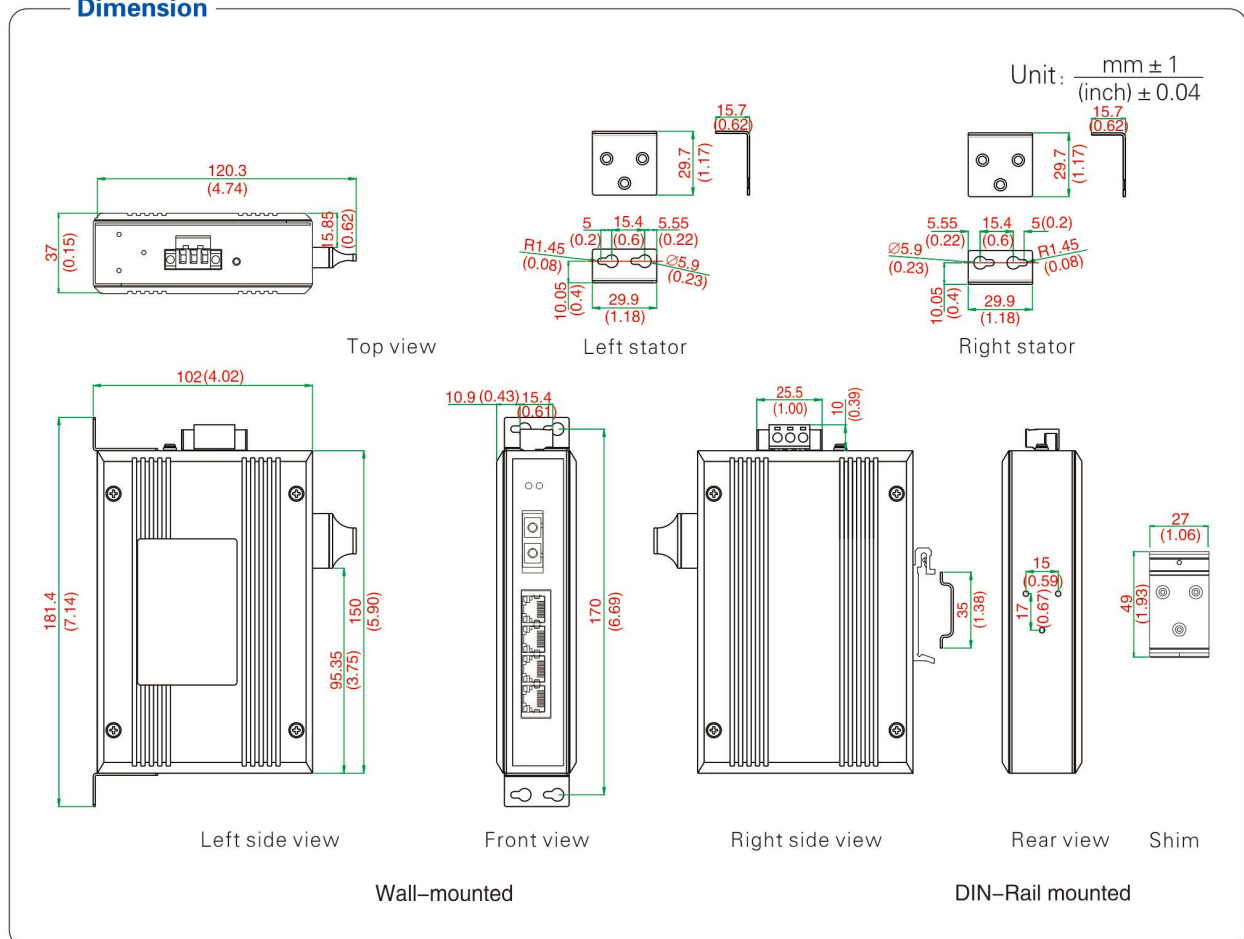
IEC(EN)61000-4-3(RS)

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)

Dimension

Unit: $\frac{mm \pm 1}{(inch) \pm 0.04}$

Top view

Left stator

Right stator

Left side view

Front view

Right side view

Rear view

Shim

Wall-mounted

DIN-Rail mounted

ORDERING

Model	Interface		Optical port description
	10/100Base-TX	100Base-FX	
UT-2604SM-SC	4	1	Single-mode dual-fiber SC
UT-2604SM-ST	4	1	Single-mode dual-fiber ST
UT-2604SM-FC	4	1	Single-mode dual-fiber FC
UT-2604MM-SC	4	1	Multi-mode dual-Fiber SC
UT-2604MM-ST	4	1	Multi-mode dual-Fiber ST
UT-2604MM-FC	4	1	Multi-mode dual-Fiber FC
UT-2604P	4	1	SFP slot

Remarks:

Optional single fiber transceiver, if the product before the "SM" or "MM" add "R" (receiver) or "T "(transmitter), such as UT-2604RSM-SC means single Single mode single fiber, SC connector, 20KM