100M Network Fiber Optic Transceiver

UT-2601-220

1-Port 100M Network Fiber Optic Transceiver

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UTEK TECHNOLOGY

- 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℃
- Support various fiber optic interfaces(SC/ST/FC/SFP)

RoHS COMPLIANT   CE   FC

OVERVIEW

UT-2601-220 series is a 100M network fiber optic transceiver, providing one 10/100Base-TX Ethernet ports and one 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 ℃ 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 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

Interfaces

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

RJ45 interface: 1*10/100Base-TX, auto detection, full/half-duplex, auto MDI/MDI-X

Draw switch: 10M/100M rate, DPX2 optical port operating status, DPX1 electrical port operating status, LFP optical port and electrical port connection status detection switch

Transmission distance

Cat.5e: 100m

Fiber Optic Module

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

1550nm 20/40/60/80/100/120Km

Multimode: 1310nm 2Km

LED indicator light

PWR, FDX, DPX2 optical port full/half duplex, DPX1 electrical port full/half duplex, RJ network

Switching Performance

Forwarding Rate: 148810pps

Transmission mode: Direct Forward

MAC address size: 1K

Cache size: 288Kb

Max. frame length: 9K

Index parameter		100Base-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		-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-2601RSM-SC-40-220, "R"is receiving single fiber, "SM" is single mode, "SC" fiber interface type is SC head, "40" transmission km for 40km

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Power Requirement

Voltage input: 110/220VAC(88-264VAC)50-60Hz or110/220VDC
(88-264VDC)

Power consumption

No load: 3.2 W@220VAC

Full load: 4.3 W@220VAC

Terminal block: One pluggable 3-pin terminal block

Mechanical Characteristics

IP protection level: IP40

Installation: DIN-Rail Mounted
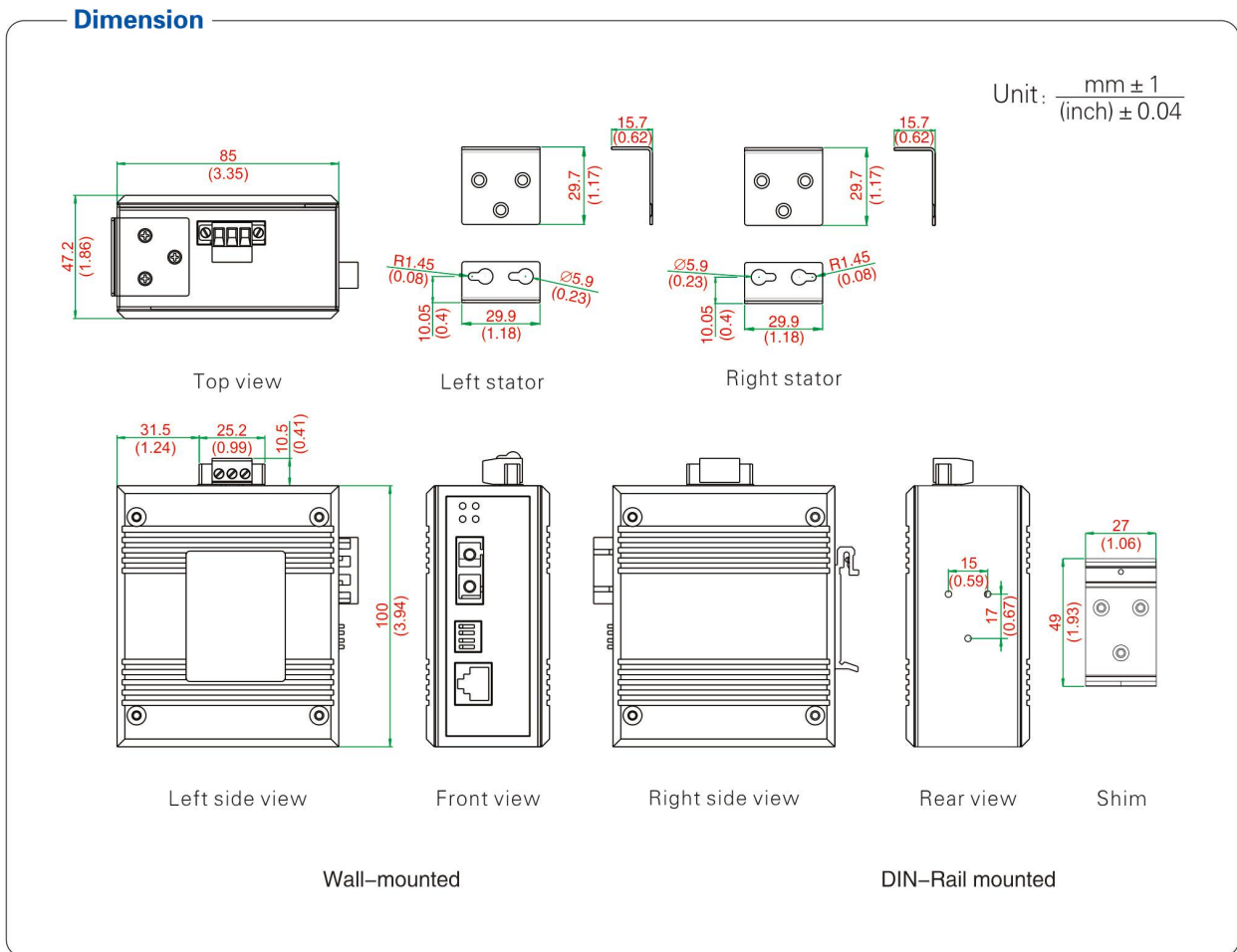
Mechanical Dimension

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

Weight: 400g

Packaging dimension: 180mm x 140mm x 45mm

Operating Environment

Operating temperature: -40 ~ 85℃

Storage temperature: -40 ~ 85℃

Relative humidity: 0 ~ 95%

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)

Dimension

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

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-2601SM-SC-220	1	1	SC
UT-2601MM-SC-220	1	1	SC

Remarks:

1. The default optical port type of the above products is SC interface, and ST/FC interface is optional.
2. The product suffix "220" means power 110/220VAC/DC (88~264VAC/DC) input.