

## 1\*1000base optical+4\*1000base RJ45

### Industrial Ethernet Switch (ODOT-ES314G series)



## ◎Product Feature

- Quality integrated optoelectronic modules provide excellent optical and electrical properties
- Ensures reliable data transmission and long service life
- Supports double or half duplex with auto-negotiation
- The network port supports automatic cross recognition
- Embedded store and forward system, supports a variety of protocols
- Complies with industrial operation standards, the average trouble-free working time is 300,000hrs
- Power: DC 12-52V reverses connection protection
- Uses SC/FC/ST/SFP fiber interfaces
- Lightning surge protection (Power): 5000A (8/20μs)

## ◎Product description

ODOT-ES314G is a 4\*1000 base Ethernet ports + 1\*1000 base FX optical port industrial Ethernet switch. Which supports 4 pc of 100Base-T/1000Base-TX Ethernet port and 1 pc of 1000Base-X fiber port. It conforms to FCC, CE and ROHS standards. And its WTP range is -40 ~ 85 °C with robust design and can adapt to various kinds of rugged environment. It can also be conveniently placed in a compact control panel. With the Din-rail, wide Temperature Range Design and a shell of IP40 plus LED indicator, these cause ODOT-ES314G series to become a plug and play industrial level device and it could provide reliable and convenient solution for user's Ethernet device networking.

## ◎Product technology parameter

### Product Name:

1000M 1\*FX + 4\*RJ45 Unmanaged Industrial Ethernet Switch

### Product Model:

ODOT-ES314G Series

### Product Description:

4\*1000M Ethernet + 1\*1000M FX Industrial Ethernet Switch

### Port Description:

4 RJ45 ports + 1 optical fiber interfaces

### RJ45 Port:

10/100 /1000 BaseT (X) Automatically detects, Full/Half duplex Auto Negotiation MDI/MDI-X

### FX Port:

1000BaseFX Port (SC/FC/ST/SFP optional)

### Ethernet Standard:

IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;

100Base-TX/FX;

IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X;

IEEE802.3x;

### Working Environment :

Working Temperature: -40~85 °C (-40~185 °F)

Storage Temperature: -40~85 °C (-40~185 °F)

Relative Humidity: 5%~95%(No condensation)

### Industrial Standard:

EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

IEC (EN) 61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge

IEC (EN) 61000-4-3(RS): 10V/m(80~1000MHz)

IEC (EN) 61000-4-4(EFT): Power line: ±4kV; Data line: ±2kV

IEC (EN) 61000-4-5(Surge): Power line: ±4kV CM/±2kV DM; Data line: ±2kV

IEC (EN) 61000-4-6(The radio frequency transmission):3V(10kHz~

150kHz),10V(150kHz~80MHz)

IEC (EN) 61000-4-16(Common-mode transmission):30V cont. 300V,1s

IEC (EN) 61000-4-8

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

### Switch Attribute:

Application Level: Layer 2

Backboard total bandwidth: 15.2Gbps

Device packet forwarding rate: 11.3056 Mpps

MAC Address table size: 8K

Packet buffer size: 1M

Switching delay<3μs

Switch method: storing - forwarding

Power Consumption: <3W

**Power supply:**

Input voltage: DC12-52V (Dual power redundancy backup)

Accessed Terminal: Phoenix terminal

Supports dual power redundancy

Supports built-in overcurrent 4.0A protection

Supports reversed polarity protection

**Mechanic:**

Shell: IP40, metal shell

Installation: DIN-rail, wall-mounted

Heat dissipation: Natural cooling without fans

Weight: 0.36Kg

Size: 118 x 86 x 39mm (LxWxH)

**LED indicator:**

Power indicator: PWR

Interface indicator: Electrical Port and Optical port (Link/ACT)

**Protection Level:**

IP40

**Certificate:**

Certification : CE,FCC,ROHS,ISO9001: 2008 Ministry of Information network permit and Inspection report of the Ministry of Public Security

Security: UL508

**Mean free error time:**

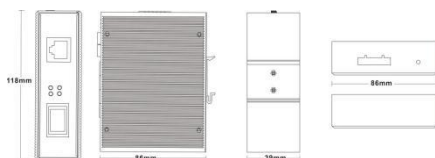
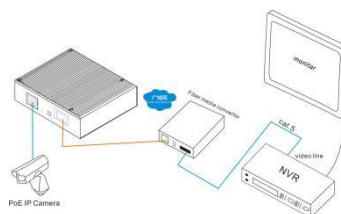
300,000 hours

**Guarantee:**

5 years

**◎Production dimension**

Lx W x H (mm): 118 x 86x 39mm

**◎Product application diagram****◎Ordering model information**

Model		Description
ODOT-ES314G-FC20AB		1*1000base optical port +4*1000base ethernet port, FC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC12~52V Power
ODOT-ES314G-SC2		1*1000base optical port +4*1000base ethernet port, SC Connector, MM DX, 2KM, Power-off alarm, Din Rail, DC12~52V Power
ODOT-ES314G-SC20		1*1000base optical port +4*1000base ethernet port, FC Connector, SM SX, 20KM, Din Rail, DC12~52V Power
ODOT-ES314G-SC20AB		1*1000base optical port +4*1000base ethernet port, SC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC12~52V Power
Power Adapter	ZX5121-DC	12V/1A, Suitable for non-POE industrial switch series.
	ZX5241-DC	24V/1A, Suitable for non-POE industrial switch series.
	ZX5521-DC	52V/1A, Suitable for 1 port limited POE power supply and non-POE industrial switch series