

**1*100/1000 base optical+2*100/1000 base
RJ45**

Industrial POE/Non POE Switch



©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
- Non-POE Power: DC 12-52V reverses connection protection
POE Power: DC 48-57V reverses connection protection
- Uses SC/FC/ST/SFP fiber interfaces
- Lightning surge protection (Power): 5000A (8/20μs)

©Product description

ODOT-ES312F series is a series of 1*100/1000 base FX port + 2*100/1000 base Ethernet port unmanaged industrial Ethernet switch, which supports 2 pc of 10Base-T/100/1000Base-TX Ethernet port and 1 pc of 100/1000Base-X fiber port, with POE or Non-POE functions. 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-ES312F 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:

ODOT-ES312F-SC2

1*100base optical + 2*100base RJ45 Unmanaged Industrial

Non-POE Switch

ODOT-ES312FP-SC2

1*100base optical + 2*100base RJ45 Unmanaged Industrial

POE Switch

ODOT-ES312G-SC2

1*1000base optical + 2*1000base RJ45 Industrial Non-POE

Switch

ODOT-ES312GP-SFP

1*1000base optical + 2*1000base RJ45 Industrial POE

Switch

RJ45 Port:

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

FX Port:

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

Ethernet Standard:

ODOT-ES312F-SC2/ ODOT-ES312G-SC2

IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u; 100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;

ODOT-ES312FP-SC2

IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u; 100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z

1000Base-X; IEEE802.3x; IEEE802.3af; IEEE802.3at;

ODOT-ES312GP-SFP

IEEE802.3-10BaseT; IEEE802.3u-100BaseTX/100Base-FX; IEEE802.3x-Flow Control; IEEE802.3z-1000BaseLX; IEEE802.3ab-1000BaseTX; IEEE802.1ab Logical Link Discovery Protocol; IEEE802.1D-Spanning Tree Protocol; IEEE802.1w-Rapid Spanning Tree Protocol; APS IEEE802.1Q-VLAN Tagging; IEEE802.1p-Class of Service; IEEE802.1X-Port Based Network Access Control

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:

ODOT-ES312F-SC2

Application Level: Layer 2

Backboard total bandwidth: 1.52Gbps

Device packet forwarding rate: 1.13088Mpps MAC Address table size: 1K

Packet buffer size: 512K

Switching delay < 3μs

Switch method: storing - forwarding

Power Consumption: < 3W

ODOT-ES312FP-SC2

Application Level: Layer 2

Backboard total bandwidth: 1.52Gbps

Device packet forwarding rate: 1.130912Mpps

MAC Address table size: 1K

Packet buffer size: 512K

Switching delay < 3μs

Switch method: storing - forwarding

Power Consumption: < 3W

ODOT-ES312G-SC2

Application Level: Layer 2

Backboard total bandwidth: 15.2Gbps

Device packet forwarding rate: 11.3056Mpps

MAC Address table size: 8K

Packet buffer : 1M

Switching delay < 4μs

Switch method: storing - forwarding

Power Consumption: < 3W

ODOT-ES312GP-SFP

Application Level: Layer 2

Backboard total bandwidth: 15.2Gbps

Device packet forwarding rate: : 11.3088Mpps

MAC Address table size: 1K

Packet buffer : 1M

Switching delay < 3μs

Switch method: storing - forwarding

Power Consumption: < 3W

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)

Power supply:

Non-POE switches

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

POE switches

Input voltage: DC48-57V(Dual power redundancy backup)

Accessed Terminal: Phoenix terminal

Supports dual power redundancy

Supports built-in overcurrent 4.0A protection

Supports reversed polarity protection

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:

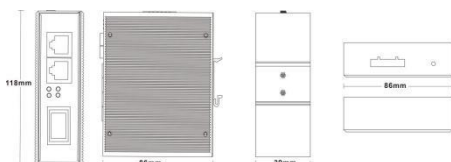
300,000 hours

Guarantee:

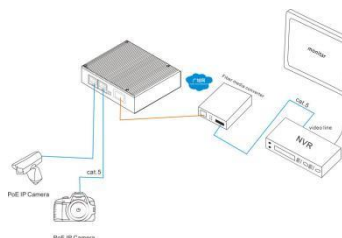
5 years

©Production dimension

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



©Product application diagram



© Ordering model information

| Model | | Description |
|----------------------|-----------|---|
| ODOT-ES312F-SC20 | | 1*100base optical port +2*100base ethernet port, SC Connector, SM DX, 20KM, Power-off alarm, Din Rail, DC12~52V Power |
| ODOT-ES312F-SC2 | | 1*100base optical port +2*100base ethernet port, SC Connector, MM DX, 2KM, Power-off alarm, Din Rail, DC12~52V Power |
| ODOT-ES312F-SC20/A/B | | 1*100base optical port +2*100base ethernet port, SC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC12~52V Power |
| ODOT-ES312F-FC20/A/B | | 1*100base optical port +2*100base ethernet port, FC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC12~52V Power |
| Power Adapter | ZX5121-DC | 12V/1A, suitable for non-POE industrial switch product series. |
| | ZX5241-DC | 24V/1A, suitable for non-POE industrial switch product series. |
| | ZX5521-DC | 52V/1A, suitable for 1-port POE power supply and non-POE industrial switch product series |

| Model | | Description |
|-----------------------|------------|---|
| ODOT-ES312FP-SC20 | | 1*100base optical port +2*100base ethernet port, SC Connector, SM DX, 20KM, Power-off alarm, Din Rail, DC48~57V Power |
| ODOT-ES312FP-SC2 | | 1*100base optical port +2*100base ethernet port, SC Connector, MM DX, 2KM, Power-off alarm, Din Rail, DC48~57V Power |
| ODOT-ES312FP-SC20/A/B | | 1*100base optical port +2*100base ethernet port, SC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC48~57V Power |
| ODOT-ES312FP-FC20/A/B | | 1*100base optical port +2*100base ethernet port, FC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC48~57V Power |
| Power Adapter | YH54825-DC | 48V/2.5A, suitable for 8-port POE power supply product series. |
| | YH55223-DC | 52V/2.3A, suitable for 8-port POE power supply product series. |

| Model | | Description |
|----------------------|-----------|---|
| ODOT-ES312G-SC20 | | 1*1000base optical port +2*1000base ethernet port, SC Connector, SM DX, 20KM, Power-off alarm, Din Rail, DC12~52V Power |
| ODOT-ES312G-SC2 | | 1*1000base optical port +2*1000base ethernet port, SC Connector, MM DX, 2KM, Power-off alarm, Din Rail, DC12~52V Power |
| ODOT-ES312G-SC20/A/B | | 1*1000base optical port +2*1000base ethernet port, SC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC12~52V Power |
| ODOT-ES312G-FC20/A/B | | 1*1000base optical port +2*1000base ethernet port, FC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC12~52V Power |
| Power Adapter | YH5121-DC | 12V/1A, suitable for non-POE industrial switch product series. |
| | YH5241-DC | 24V/1A, suitable for non-POE industrial switch product series. |
| | YH5521-DC | 52V/1A, suitable for 1-port POE power supply and non-POE industrial switch product series |

| Model | | Description |
|-----------------------|------------|---|
| ODOT-ES312GP-SC20 | | 1*1000base optical port +2*1000base ethernet port, SC Connector, SM DX, 20KM, Power-off alarm, Din Rail, DC48~57V Power |
| ODOT-ES312GP-SC2 | | 1*1000base optical port +2*1000base ethernet port, SC Connector, MM DX, 2KM, Power-off alarm, Din Rail, DC48~57V Power |
| ODOT-ES312GP-SC20/A/B | | 1*1000base optical port +2*1000base ethernet port, SC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC48~57V Power |
| ODOT-ES312GP-FC20/A/B | | 1*1000base optical port +2*1000base ethernet port, FC Connector, SM SX, 20KM, Power-off alarm, Din Rail, DC48~57V Power |
| Power Adapter | ZX54825-DC | 48V/2.5A, suitable for 8-port POE power supply product series. |
| | ZX55223-DC | 52V/2.3A, suitable for 8-port POE power supply product series. |