

ISE3018D Series Unmanaged Industrial Ethernet Switch



Key Features:

- ☑ With Gigabit Uplinks.
- ☑ IP40 protection class, fully enclosed metal cabinet
- ☑ Exceeds Industrial class III specifications
- ☑ Plug and play
- ☑ Wide operating temperature : -40~+85 °C
- ☑ Wide voltage range design, 2×24VDC(12~48VDC)
- ☑ Support relay alarm output
- ☑ DIN- Rail or wall mounting options

Product Overview

ISE3018D series products are 18-port DIN-Rail Unmanaged Industrial Ethernet Switch designed for applications in electric power, transportation, and industrial control and other severe industrial environment. It integrates high-standard wide-range temperature and voltage design, enterprise-class forwarding performance, strong cabinet, protected industrial circuit and other industrial features, is capable of plug and play, and can satisfy reliability requirement under harsh industrial environment.

Product Features

➡ Proven dependable industrial quality

- ☑ Fault-free and reliable operation in applications such as: electric power stations, transportation, industrial control environments, and SCADA systems.
- ☑ Excellent electromagnetic/radiation/electrostatic protection capacity and zero packet loss under intensive electromagnetic interference
- ☑ Excellent EMC/EMI and anti-radiation performance
- ☑ Real industrial-class design, with working temperatures at -40~85 °C
- ☑ Redundant power input and industrial-class surge protections

- ☑ Tough metal cabinet with corrosion-proof coating
- ☑ IP40 seal protection: dust proof, stain proof and debris proof

☞ Simple and easy to use

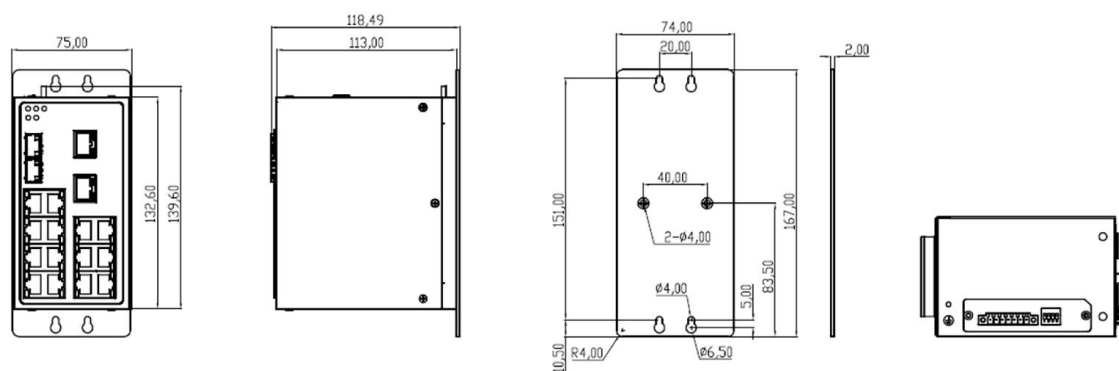
- ☑ Plug-and-play functionality for rapid deployment
- ☑ Linear data forwarding to ensure real time performance
- ☑ Compatible with industrial DIN-rails or available with an optional wall-mounting kit
Supports IEEE 802.3x flow control and backpressure type flow controls to guarantee data integrity.
- ☑ Latency under 3μs, satisfying the real time performance requirements of a production environment.

Product Specification

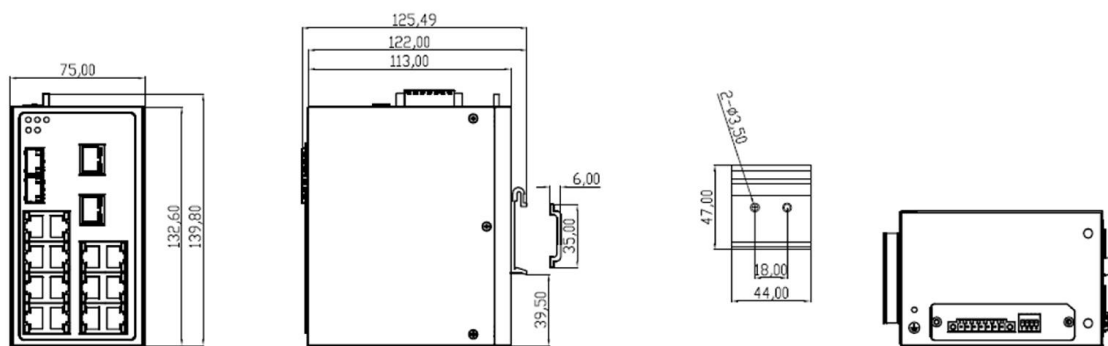
| Item | | ISE3018D |
|----------------------|-----------------------------|---|
| Interface | RJ45 port | 10/100Base-T(X) or 10/100/1000Base-T(X) auto-sensing RJ45 port |
| | FX optical port | 100Base-FX port (SC/ST/FC port) |
| | GX optical port | 1000Base-SFP slot |
| | LED indication | PWR1,PWR2,STAT,FAULT,FX , GX |
| Mechanical structure | Housing | IP40 protection class, fully enclosed and seamless type metal cabinet, PCB protection coating available |
| | Dimensions (WxHxD) | 75mm ×132.6mm×113mm |
| | Weight | 0.9 kg |
| | Heat dissipation mode | Fanless heat dissipation |
| | Installation mode | Guide rail and wall mounting (kit optional) |
| | MTBF | 35 years |
| Power source | Input voltage | 24VDC(12~48VDC), support redundant input |
| | Interface terminal | 7-pin pluggable screw connection terminal |
| | Overload protection | Available |
| | Reverse polarity protection | Available |
| | Power consumption | <8.7W |
| Working environment | Working temperature | -40 ~ +85 °C |
| | Storage | -40 ~ +85 °C |

| Item | | ISE3018D |
|-----------------------|--------------------------------|---|
| | temperature | |
| | Relative humidity | 5%~95% (no condensation) |
| Switching performance | Forwarding inherent time delay | <10μs |
| | Backplane bandwidth | 7.2Gbps |
| | MAC address table | 8k |
| | Data package buffer | 1Mbit |
| Function features | Ethernet standard | IEEE 802.3 for 10Base-T |
| | | IEEE 802.3u for 100Base-T(X)and 100Base-FX |
| | | IEEE 802.3x for flow control |
| | | IEEE 802.3ab for 1000BaseT(X) |
| | | IEEE 802.3 for 1000BaseX |
| | Port flow control | Supporting IEEE 802.3 x flow control and backpressure type flow control, capable of enabling/disabling flow control via dip switch |
| | Relay alarm output | Rated control capacity: 2A@30V DC |
| | | Maximum allowable power: 60W |
| | | Maximum allowable voltage: 220V DC |
| | | Maximum allowable current: 2A DC |
| | Dip switch | Supporting enabling/disabling of broadcast storm protection via hardware dip switch, flow control and port connection interruption alarm; |
| Industrial standard | Electromagnetic compatibility | IEC 61000-4-2(Electrostatic discharge) level 3 |
| | | IEC 61000-4-3(Radiated, radio-frequency, electromagnetic field) level 3 |
| | | IEC 61000-4-4(Electrical fast transient/burs) level 3 |
| | | IEC 61000-4-5(surge) level 3 |
| | | IEC 61000-4-6(Immunity to conducted disturbances, induced by radio-frequency fields) level 3 |
| | | IEC 61000-4-8(Power frequency magnetic field) level 4 |
| | Impact | IEC60068-2-27 |
| | Freefall | IEC60068-2-32 |
| | Vibration | IEC60068-2-6 |
| Warranty period | Warranty period | 5 years |

Dimensions



Wall Mount



DIN-Rail Mount

Ordering Information

1. Product Ordering Information

| Product Model | Port | | | | |
|--------------------------|-------------------|-------------------------|---------------------------|-----------------------------|----------|
| | 10/100 Base-TX | 100Base-FX(SC/ST/FC) | | | SFP slot |
| | | Multimode dual fiber | Single mode dual fiber | Single mode single fiber | |
| ISE3018D-16T-2GSFP-24 | 16 | - | - | - | 2 |
| ISE3018D-14T-2GSFP-2M-24 | 14 | 2 | - | - | 2 |
| ISE3018D-14T-2GSFP-2S-24 | 14 | - | 2 | - | 2 |
| ISE3018D-14T-2GSFP-2B-24 | 14 | - | - | 2 | 2 |

Note:

- ☒ Multimode dual fiber supports 2km; single mode dual fiber support 20/40/80/120KM;Single mode single fiber supports 20/40/60/80/120KM
- ☒ Power supply default is DC24V low-voltage

2. SFP optical module ordering information

| Name | Description |
|-------------------|---|
| SFP-GT-RJ45 | Electrical module-SFP-GT-(RJ45) |
| SFP-GX-SXM8-LC | optical module-SFP-GX-multimode module-(850nm,0.5km,LC) |
| SFP-GX-SXM3-LC | optical module-SFP-GX-multimode module-(1310nm,0.5km,LC) |
| SFP-GX-LXS3-LC | optical module-SFP-GX-single mode module-(1310nm,10km,LC) |
| SFP-GX-LXS5-LC | optical module-SFP-GX-single mode module-(1550nm,10km,LC) |
| SFP-GX-LH40S3-LC | optical module-SFP-GX-single mode dual fiber-(1310nm,40km,LC) |
| SFP-GX-LH40S5-LC | optical module-SFP-GX-single mode dual fiber-(1550nm,40km,LC) |
| SFP-GX-LH80S5-LC | optical module-SFP-GX-single mode dual fiber-(1550nm,80km,LC) |
| SFP-GX-LH100S5-LC | optical module-SFP-GX-single mode dual fiber-(1550nm,100km,LC) |
| SFP-GX-SXB35-LC | optical module-SFP-GX-single mode single fiber-(TX1310/RX1550nm,0.5km,LC) |
| SFP-GX-SXB53-LC | optical module-SFP-GX-single mode single fiber-(TX1550/RX1310nm,0.5km,LC) |
| SFP-GX-LXB35-LC | optical module-SFP-GX-single mode single fiber-(TX1310/RX1550nm,10km,LC) |
| SFP-GX-LXB53-LC | optical module-SFP-GX-single mode single fiber-(TX1550/RX1310nm,10km,LC) |
| SFP-GX-LH40B35-LC | optical module-SFP-GX-single mode single fiber-(TX1310/RX1550nm,40km,LC) |
| SFP-GX-LH40B53-LC | optical module-SFP-GX-single mode single fiber-(TX1550/RX1310nm,40km,LC) |

| Name | Description |
|--------------------|---|
| SFP-GX-LH80B45-LC | optical module-SFP-GX-single mode single fiber-(TX1490/RX1510nm,80km,LC) |
| SFP-GX-LH80B54-LC | optical module-SFP-GX-single mode single fiber-(TX1550/RX1490nm,80km,LC) |
| SFP-GX-LH100B45-LC | optical module-SFP-GX-single mode single fiber-(TX1490/RX1550nm,100km,LC) |
| SFP-GX-LH100B54-LC | optical module-SFP-GX-single mode single fiber-(TX1550/RX1490nm,100km,LC) |

InHand Networks

Connecting devices, enabling services

