



Industrial Ethernet Switches **IES2028-16F-4GS**

◆ 8-port 10/100M Ethernet+ 16-port 100Base-FX +4-port Gigabit (SFP slot) Unmanaged Switch

➤ Features

- Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.3z
- Store and Forward switching process type
- Plug-and-play , auto MDI/MDI-X connection
- Support 8K MAC address
- 10/100BaseT(X)(RJ45)
- Operating temperature range from -40 to 75 °C
- Designed without fan
- IP30, rugged high-strength metal case
- 19-inch rack mounting



➤ Introduction

The IES2028-16F-4GS industrial Ethernet switches consists of 8 Ethernet ports, 16 Fiber ports and 4 Gigabit (SFP slot) ports that provide an economical solution for your industrial Ethernet connection. The IES2028-16F-4GS switches have an operating temperature range of -40 to 75 °C, and are designed with low consumption and without fan. The rugged hardware design makes the IES2028-16F-4GS perfect for ensuring that your Ethernet equipment can withstand the rigors of industrial applications.

➤ Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Power system applications
- High Way & Toll Station Surveillance
- Transformer Substation Communication System
- Oil of GPRS data acquisition system

➤ Specification

Technology

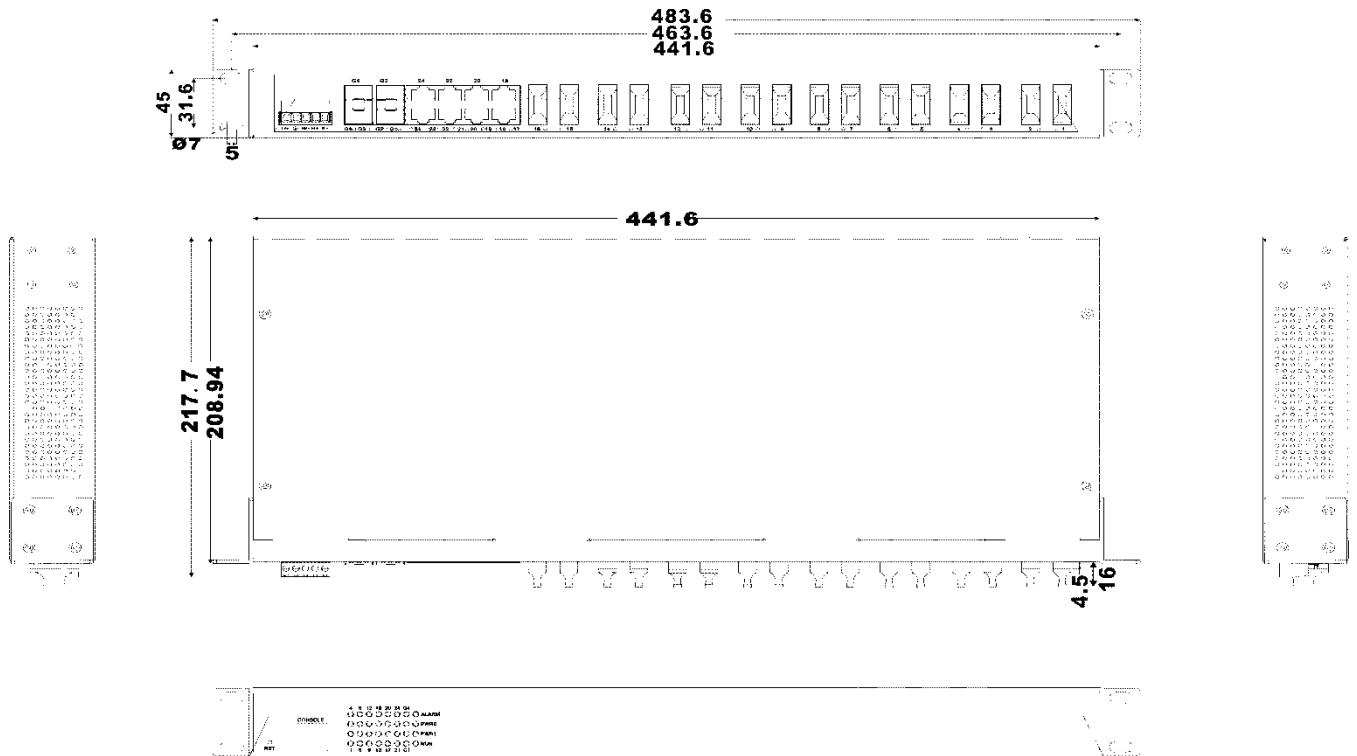
| | |
|---------------------------|--|
| Standard | Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.3z |
| Flow control | IEEE802.3x flow control, back press flow control |
| Exchange attribute | |
| 100M forward speed | 148810pps |
| 1000M forward speed | 1488100pps |
| Transmit mode | store and forward |
| System exchange bandwidth | 12.8G |
| MAC address table | 8K |
| Memory | 4M |

Interface

| | |
|-----------------------|--|
| Electric port | 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect |
| 100M optic fiber port | 100Base-FX, SC/ST/FC connector, support single mode (20/40/60/80Km) |

| | |
|-----------------------------|--|
| | optional), multi mode (2Km)wavelength: 1310nm, 1550nm |
| 1000M fiber port | 1000Base-SX/LX/LHX/ZX (LC interface) |
| Console port | Retain |
| Alarm port | 2 bit terminal block 1 channel relay alarm output |
| Load ability | 5A@250VAC |
| Transfer distance | |
| Twisted cable | 100M (standard CAT5/CAT5e cable) |
| Multi-mode | 1310nm, 2/5Km |
| Single-mode | 1310nm, 20/40/60Km 1550nm, 80/100/120Km |
| LED indicator | |
| Run indicator | Run |
| Interface indicator | Link (1~24/G1~G4) |
| Power supply indicator | PWR |
| Alarm indicator | Alarm |
| Power supply | |
| Input Voltage | 100~240VAC |
| Overload Current Protection | 1.2A |
| Connection | 3 bit terminal block |
| Consumption | |
| Unload consumption | 17.3W |
| Full load consumption | 22.8W |
| Working environment | |
| Working temperature | -40~75℃ |
| Storage temperature | -40~85℃ |
| Relative Humidity | 5%~95 % (no condensation) |
| Mechanical Structure | |
| Packaging | IP 30 protection, metal case |
| Installation | 19-inch racks mount |
| Dimensions (L×W×H) | 441.6mm×208.9mm×45mm |
| Industry Standard | |
| EMI | FCC Part 15, CISPR (EN55022) class A |
| EMS | EN61000-4-2 (ESD), Level 4 EN61000-4-3 (RS), Level 3 EN61000-4-4 (EFT), Level 4 EN61000-4-5 (Surge), Level 4 EN61000-4-6 (CS), Level 3 EN61000-4-8, Level 5 |
| Shock | IEC 60068-2-27 |
| Free fall | IEC 60068-2-32 |
| Vibration | IEC 60068-2-6 |
| Certification | CE, FCC, RoHS, UL508 (Pending) |
| Warranty | 5 years |

➤ Dimension



➤ Ordering Information

| Model NO. | Description |
|----------------------|--|
| IES2028-16F-4GS (M) | 8 port 10/100Base-T(X) + 16 port 100Base-FX Multi-mode SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC |
| IES2028-16F-4GS (S) | 8 port 10/100Base-T(X) + 16 port 100Base-FX Single-mode SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC |
| IES2028-16F-4GS (SS) | 8 port 10/100Base-T(X) + 16 port 100Base-FX single-mode, single fiber SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC |

➤ Packing List

- Ethernet switch IES2028-16F-4GS (plus terminal block)×1
- User manual × 1
- Certificate of quality × 1
- Warranty card × 1
- Power cable × 1

