



◆ 14-port 10/100M Ethernet+2-port 100Base-FX Unmanaged Switch

➤ Features

- Support IEEE802.3, IEEE802.3u, IEEE 802.3x
- Store and Forward switching process type
- Plug-and-play, auto MDI/MDI-X connection
- Support MAC address auto-learning, auto-aging
- Support 8K MAC address
- Support 12.8Gbps backboard bandwidth
- Support redundancy power supply(12~48VDC)
- Support 1 channel relay alarm output
- Operating temperature range from -40 to 75 °C
- Designed without fan
- DIN rail mounted
- Metal shell, IP30 protection class



➤ Introduction

IES4016-2F is unmanaged Industrial Ethernet switch with high performance, high cost-effective, it provided 14 port 10Base-T/100Base-TX Ethernet+ 2 port 100Base-FX (FC/SC/ST). Product accorded to CE, FCC standard and Industry grade 4 design requirement, support 2 redundant power input and 1 channel relay alarm output, and -40~75°C working temperature, can meet all kinds of Industrial environment requirement. It can use in power, water conservancy, transportation area etc.

➤ 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

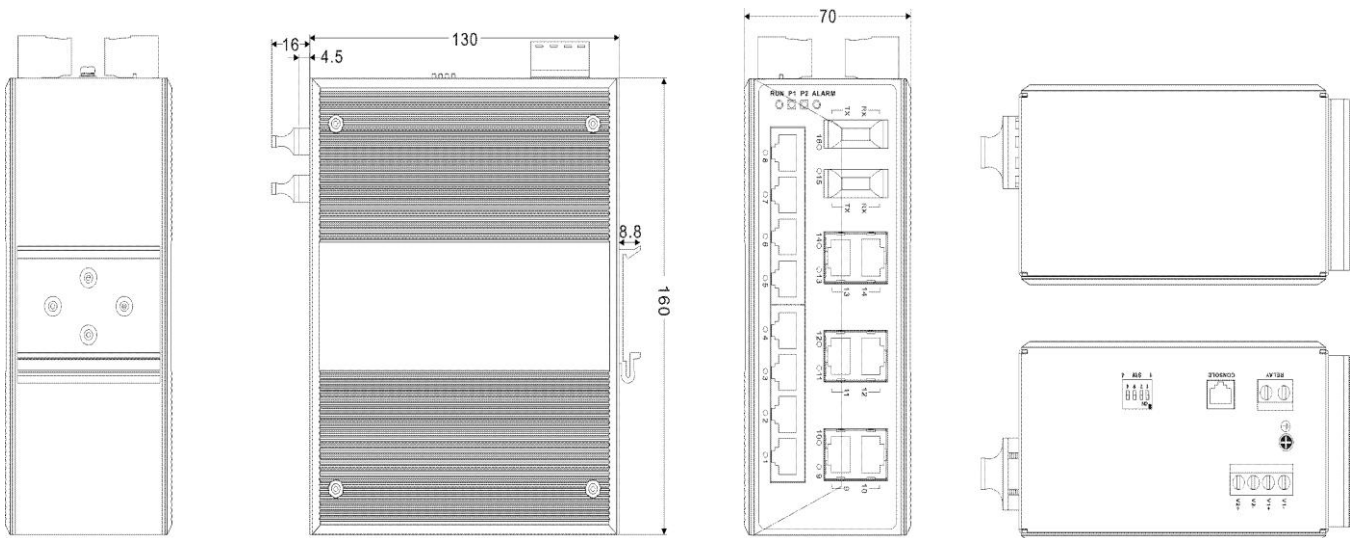


➤ Specification

| Technology | |
|---|--|
| Standard | Support IEEE802.3, IEEE802.3u, IEEE 802.3x, |
| Flow control | IEEE802.3x flow control, back press flow control |
| Exchange attribute | |
| 100M forward speed | 148810pps |
| 100M maximum filter speed | 148810pps |
| 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 |
| Console port | Retain |
| Alarm port | 2 bit terminal block, 1 channel relay alarm output |
| 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 (1~16) |
| Power supply indicator | P1, P2 |
| Alarm indicator | Alarm |
| Power supply | |
| Input Voltage | 24VDC (12~48VDC) |
| Input method | 4 bits 7.62mm terminal block |
| Support DC dual power supply redundancy | |
| Overload current protect | 1.2A |
| Consumption | |
| No-load consumption | 6.12W@24VDC |
| Full-load consumption | 8.33W@24VDC |
| Working environment | |
| Working temperature | -40~75°C |
| Storage temperature | -40~85°C |
| Relative Humidity | 5%~95 % (no condensation) |
| Mechanical Structure | |
| Shell | IP30 protect grade, metal shell |
| Installation | DIN rail and wall mount |
| Size (W×H×D) | 70mm×160mm×130mm |

| | |
|--------------------------|--|
| 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 3 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, PAL, UL508 (Pending) |
| Warranty | 5 years |

➤ Dimension



➤ Ordering Information

| Model NO. | Description |
|-----------------|--|
| IES4016-2F (M) | 14 port 10/100Base-T(X) + 2 port 100Base-FX Multi-mode SC/ST/FC, 12-48VDC |
| IES4016-2F (S) | 14 port 10/100Base-T(X) + 2 port 100Base-FX Single-mode SC/ST/FC, 12-48VDC |
| IES4016-2F (SS) | 14 port 10/100Base-T(X) + 2 port 100Base-FX single-mode, single fiber SC/ST/FC, 12-48VDC |

➤ Packing List

- Industrial Ethernet switch IES4016-2F (plus terminal block) × 1
- User manual × 1
- Certificate of quality × 1
- Warranty card × 1