

# IES1028-4GS-4F

20-port 10/100M Ethernet+ 4-port 100Base-FX(SC/ST/FC)+

4-port Gigabit (SFP slot) Unmanaged Industrial Ethernet 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



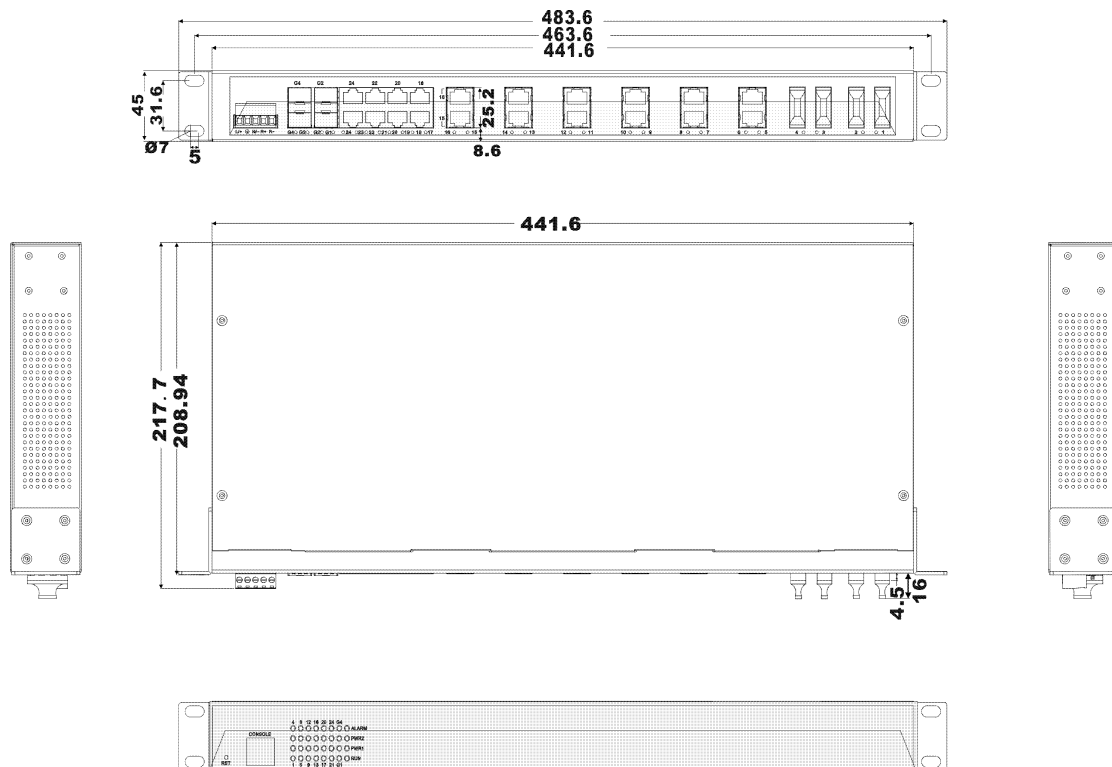
## Introduction

The IES1028-4GS-4F industrial Ethernet switches consists of 20 Ethernet ports, 4 Fiber ports and 4 Gigabit (SFP slot) ports that provide an economical solution for your industrial Ethernet connection. The IES1028-4GS-4F 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 IES1028-4GS-4F perfect for ensuring that your Ethernet equipment can withstand the rigors of industrial applications.

## Dimension

Unit (mm)





## 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: 9.5W

Full load consumption: 15.0W

### 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

## Ordering Information

IES1028-4GS-4F (M): 20 port 10/100Base-T(X) + 4 port 100Base-FX Multi-mode SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC

IES1028-4GS-4F (S): 20 port 10/100Base-T(X) + 4 port 100Base-FX Single-mode SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC

IES1028-4GS-4F (SS): 20 port 10/100Base-T(X) + 4 port 100Base-FX single-mode, single fiber SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC

## Packing List

1. Ethernet switch IES1028-4GS-4F (plus terminal block) × 1

2. User manual × 1

3. Certificate of quality × 1

4. Warranty card × 1

5. Power cable × 1