

# IT-ES1024-IU-12F

12-ports 10/100M Ethernet + 12-ports 100Base-FX(SC/ST/FC)

Unmanaged Industrial Ethernet 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 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.



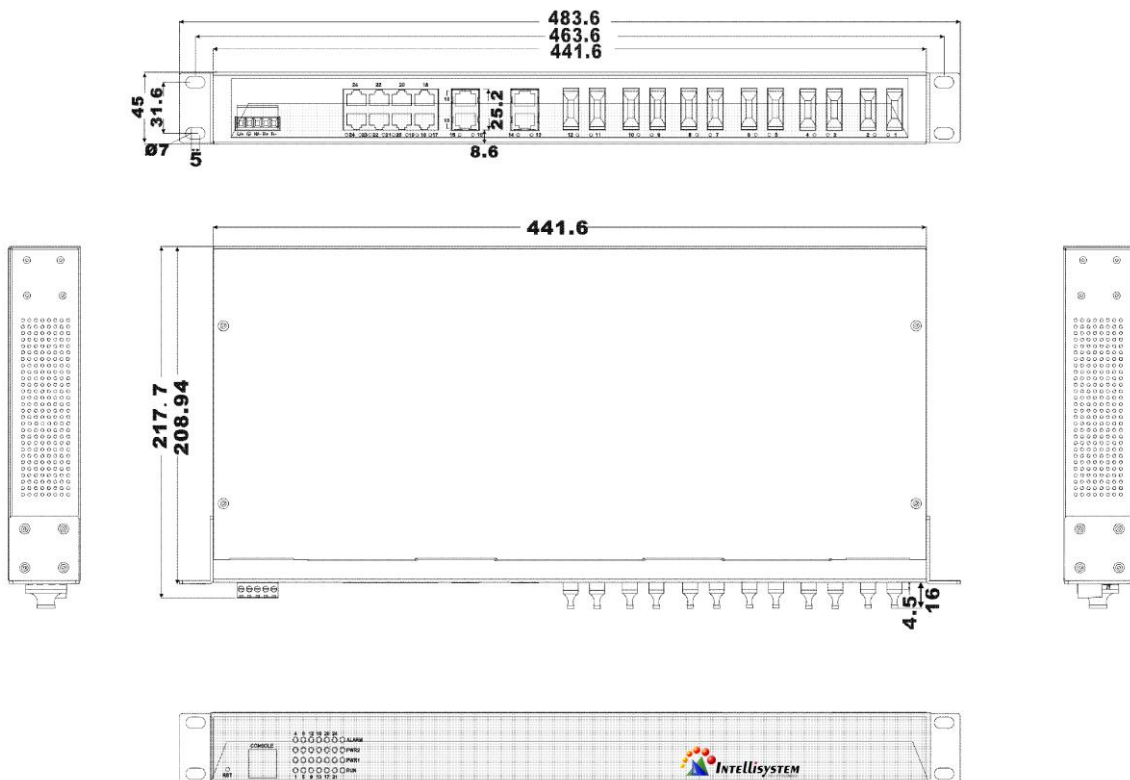
## Introduction

The IT-ES1024-IU-12F industrial Ethernet switches consists of 12 Ethernet ports and 12 Fiber ports that provide an economical solution for your industrial Ethernet connection. The IT-ES1024-IU-12F 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 IT-ES1024-IU-12F perfect for ensuring that your Ethernet equipment can withstand the rigors of industrial applications.

## Dimensions

Unit (mm)



## Specifications

### Technology

Standard: Support IEEE802.3, IEEE802.3u, IEEE 802.3x,  
Flow control: IEEE802.3x flow control, back press flow control

### Exchange attributes

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

### Interfaces

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  
Load ability: 5A@250VAC

### Transfer distance

Twisted cable: 100M (standard CAT5/CAT5e cable)  
Multi-mode: 1310nm, 2Km  
Single-mode: 1310nm, 20/40/60Km  
1550nm, 80/100/120Km

### LED indicators

Run indicator: Run  
Interface indicator: Link (1~24)  
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: 14.7W  
Full load consumption: 17.2W

### Working environment

Working temperature: -40~75°C  
Storage temperature: -40~85°C  
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 Standards

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

### Certifications

CE, FCC, RoHS, UL508 (Pending)

**Warranty:** 5 years

## Ordering Informations

**IT-ES1024-IU-12F (M):** 12 ports 10/100Base-T(X) + 12 ports 100Base-FX Multi-mode SC/ST/FC, 100~240VAC;

**IT-ES1024-IU-12F (S):** 12 ports 10/100Base-T(X) + 12 ports 100Base-FX Single-mode SC/ST/FC, 100~240VAC;

**IT-ES1024-IU-12F (SS):** 12 ports 10/100Base-T(X) + 12 ports 100Base-FX single-mode, single fiber SC/ST/FC, 100~240VAC.

## Packing List

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1. Ethernet switch IT-ES1024-IU-12F (plus terminal block) ×1
2. User manual ×1
3. Certificate of quality ×1
4. Warranty card ×1
5. Power cable ×1