

## 20 Port Unmanaged Ethernet Switch, Model IES S 1164



- ✓ Supports full-duplex or half-duplex, auto negotiation
- ✓ Supports 10/100Base-T(X), auto detection, Auto
- ✓ MDI/MDI-X
- ✓ Built-in store-and-forward, 8k buffer
- ✓ Operating temperature : -40 to 75°C
- ✓ IP rating : IP40
- ✓ Relay Alarm function
- ✓ Redundant dual power input, overload and reverse
- ✓ polarity protection
- ✓ MTBF>300,000 hours

### Overview

IESM S 1164 is Unmanaged Industrial Ethernet Switch. It supports 20 ports, which include 4 Gigabit SFP fiber ports. This switch has low power consumption. The fanless design prevents it from noise interference. The operating temperature range is from -40 to 75°C. These features make the switch safe and reliable solution for industrial automation, intelligent transportation, video monitoring, and other industrial and networking applications.

### Specification

#### Standards

IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ab  
IEEE802.3x Flow control for Full Duplex & Back pressure for Half Duplex

#### Ports

RJ-45 ports : 16\*10/100Base-T(X), auto MDI/MDI-X  
Fiber ports : 4\*1000Base-X (SFP slot)

#### Transmission Distance

Ethernet : 100m  
Fiber  
Single-mode : 1,310nm, 20/40/60Km, 1,550nm, 20/40/60/80/100/120Km  
Multi-mode : 1,310nm, 2Km

#### Switching Performance

Forwarding rate:  
100M ports : 148,810pps  
1000M ports : 1,488,095pps  
Transmission mode : store-and-forward  
MAC address buffer : 8K  
Switching bandwidth : 11.2G

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**Power Requirement**

Input : 12/24/48 DC (10.8 to 52.8V)  
          : 110/220VAC (88 to 264VAC)/50-60Hz or 110/220VDC (88 to 264VDC)  
          : Supports Dual power input  
Power Consumption : < 15W

**Mechanical Characteristics**

IP rating : IP40  
Weight : <2000g  
Installation : DIN-Rail

**Dimension**

Size : 70\*150 mm\*120mm (W×H×D)

**Environment**

Wide temperature : -40 to 75°C  
Storage temperature : -40 to 75°C  
Relative humidity : 0 to 95% (non-condensing)

**Industrial Standards**

EMI: FCC Part 15, CISPR (EN55022) class A  
EMS:  
IEC(EN)61000-4-2(ESD) IEC(EN)61000-4-6(CS)  
IEC(EN)61000-4-3(RS) IEC 60068-2-27(Shock)  
IEC(EN)61000-4-4(EFT) IEC 60068-2-32(Freefall)  
IEC(EN)61000-4-5(Surge)

**Ordering Model Code : IES S 116-4S-Z-R**

Model	10/100 Base T Ports	1000 Base FX SFP Ports
IES S 1160-Z	16	
IES S 116-4S-Z	16	4

**Z : Input Supply**  
: DC for 12/24/48 DC ( 10.8 to 52.8V ) & AC for 110/220V AC/DC ( 88 to 264V )  
: 12/24/48V DC is by default  
**R : Dual Power Supply. Single Supply is default.**

**Note : SFP to be purchased separately**

### Dimension

