



## IES1028 Series

1U Rack Mounting

28-port 100M/Gigabit Layer 2 Unmanaged Industrial Ethernet Switch

- Support 4 Gigabit fiber ports (SFP slots), 24 100M fiber and copper ports optional
- Input power supply voltage: 100~240VAC/DC
- Support -40~75°C wide operating temperature range



Industrial Grade

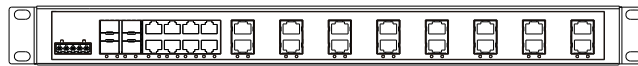
# Introduction

IES1028 series are 28-port 100M/Gigabit layer 2 unmanaged industrial Ethernet switches. This series include six types of products and provide 100M copper port, 100M fiber port, and Gigabit SFP slot. They adopt rack mounting to meet the requirements of different application scenes.

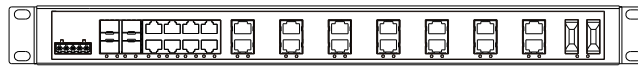
Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.

# Dimension

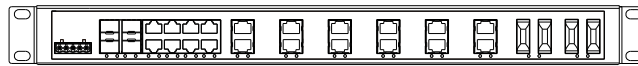
Unit:mm



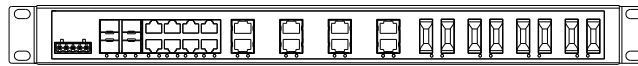
IES1028-4GS



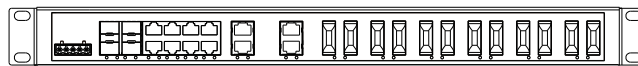
IES1028-4GS-2F



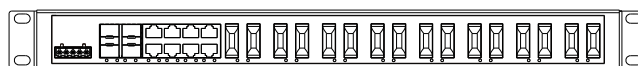
IES1028-4GS-4F



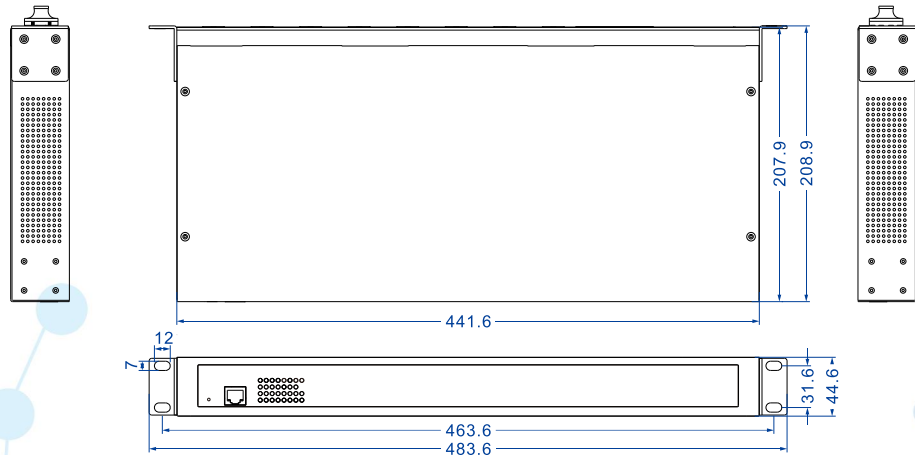
IES1028-4GS-8F



IES1028-4GS-12F



IES1028-4GS-16F



# Specification

<b>Standard &amp; Protocol</b>	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X																						
<b>Interface</b>	Copper port: 10Base-T/100Base-TX, RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning Fiber port: 100Base-FX, SC/ST/FC optional SFP slot: 1000Base-X SFP																						
<b>LED Indicator</b>	Running Indicator, Port Indicator, Power Supply Indicator																						
<b>Switch Property</b>	Transmission mode: store and forward MAC address: 8K Packet buffer size: 3Mbit Backplane bandwidth: 12.8G Switch time delay: <10μs																						
<b>Power Requirement</b>	100~240VAC/DC Support 8A overcurrent protection																						
<b>Power Consumption</b>	<table border="1"> <thead> <tr> <th>Model</th> <th>No-load (@220VAC)</th> <th>Full-load (@220VAC)</th> </tr> </thead> <tbody> <tr> <td>IES1028-4GS</td> <td>6.9W</td> <td>12.4W</td> </tr> <tr> <td>IES1028-4GS-2F</td> <td>8.2W</td> <td>13.7W</td> </tr> <tr> <td>IES1028-4GS-4F</td> <td>9.5W</td> <td>15W</td> </tr> <tr> <td>IES1028-4GS-8F</td> <td>12.1W</td> <td>17.6W</td> </tr> <tr> <td>IES1028-4GS-12F</td> <td>14.7W</td> <td>20.2W</td> </tr> <tr> <td>IES1028-4GS-16F</td> <td>17.3W</td> <td>22.8W</td> </tr> </tbody> </table>	Model	No-load (@220VAC)	Full-load (@220VAC)	IES1028-4GS	6.9W	12.4W	IES1028-4GS-2F	8.2W	13.7W	IES1028-4GS-4F	9.5W	15W	IES1028-4GS-8F	12.1W	17.6W	IES1028-4GS-12F	14.7W	20.2W	IES1028-4GS-16F	17.3W	22.8W	
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<b>Environmental Limit</b>	Operating temperature range: -40~75°C Storage temperature range: -40~85°C Relative humidity: 5% ~ 95% (no condensation)																						
<b>Physical Characteristic</b>	Housing: IP30 protection, metal Installation: 19 inches 1U rack mounting Dimension (W x H x D): 441.6mm×44.6mm×207.9mm																						
<b>Industrial Standard</b>	IEC 61000-4-2 (ESD) , Level 4 <ul style="list-style-type: none"> <li>Air discharge: ±15kV</li> <li>Contact discharge: ±8kV</li> </ul> IEC 61000-4-4 (EFT), Level 4																						

- Power supply:  $\pm 4\text{kV}$
- Ethernet interface:  $\pm 2\text{kV}$
- Relay:  $\pm 4\text{kV}$

IEC 61000-4-5 (Surge), Level 4

- Power supply: common mode  $\pm 4\text{kV}$ , differential mode  $\pm 2\text{kV}$
- Ethernet interface:  $\pm 4\text{kV}$
- Relay: common mode  $\pm 4\text{kV}$ , differential mode  $\pm 2\text{kV}$

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

**Certification**

CE, FCC, RoHS

**Warranty**

5 years

## Ordering Information

Available Models	Gigabit slot	SFP	100M Port	Fiber	100M Port	Copper	Power Supply Range
IES1028-4GS-N	4		—			24	100~240VAC/DC
IES1028-4GS-2F-N	4		2			22	
IES1028-4GS-4F-N	4		4			20	
IES1028-4GS-8F-N	4		8			16	
IES1028-4GS-12F-N	4		12			12	
IES1028-4GS-16F-N	4		16			8	