



## Industrial Ethernet Switches **IES2028-20F-4GS**

### ◆ 4-port 10/100M Ethernet+ 20-port 100Base-FX +4-port Gigabit (SFP slot) Unmanaged 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 IES2028-20F-4GS industrial Ethernet switches consists of 4 Ethernet ports, 20 Fiber ports and 4 Gigabit (SFP slot) ports that provide an economical solution for your industrial Ethernet connection. The IES2028-20F-4GS 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 IES2028-20F-4GS perfect for ensuring that your Ethernet equipment can withstand the rigors of industrial applications.

#### ➤ 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

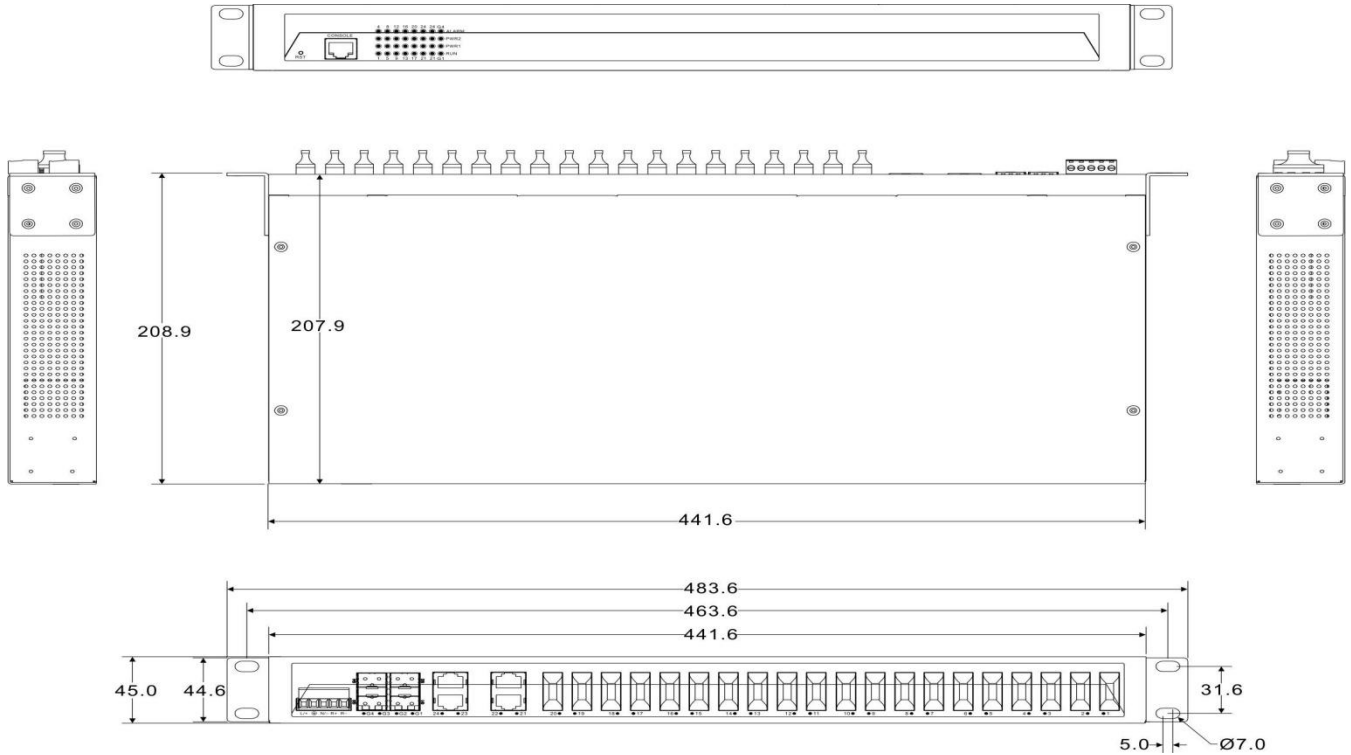
Standard	Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.3z
Flow control	IEEE802.3x flow control, back press flow control
Exchange attribute	
100M forward speed	148810pps
1000M forward speed	1488100pps
Transmit mode	store and forward
System exchange bandwidth	12.8G
MAC address table	8K
Memory	4M

##### 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
<b>Consumption</b>	
Unload consumption	18.8W
Full load consumption	23.1W
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

## ➤ Dimension



## ➤ Ordering Information

Model NO.	Description
IES2028-20F-4GS (M)	4 port 10/100Base-T(X) + 20 port 100Base-FX Multi-mode SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC
IES2028-20F-4GS (S)	4 port 10/100Base-T(X) + 20 port 100Base-FX Single-mode SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC
IES2028-20F-4GS (SS)	4 port 10/100Base-T(X) + 20 port 100Base-FX single-mode, single fiber SC/ST/FC + 4 port gigabit (SFP slot), 100-240VAC

## ➤ Packing List

- Ethernet switch IES2028-20F-4GS (plus terminal block)×1
- User manual × 1
- Certificate of quality × 1
- Warranty card × 1
- Power cable × 1

