UPCOM

Industrial Ethernet Switches   IES3016-6F

◆   **10-port 10/100M Ethernet+ 6-port 100Base-FX Managed Switch**

➤ Features

- Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W
- MW-Ring ring network patent technology (Fault recovery time<20ms）
- Support RSTP, way exchange time<50ms
- Support WEB configuration
- Support Port based VLAN and IEEE 802.1Q VLAN
- Support absolutely and opposite priority, support IEEE802.1P, DSCP priority
- Store and Forward switching process type
- Support MAC address auto-learning, auto-aging
- Support 8K MAC address
- Support 12.8Gbps backboard bandwidth
- Support redundancy power supply(12～48VDC)
- Support 1 channel relay alarm output
- Operating temperature range from -40 to 75 ℃
- DIN rail mounted
- Metal shell, IP30 protection class

➤ Introduction

IES3016-6F is an industrial grade, managed and redundancy Ethernet switch which supports 10 Ethernet ports and 6 Fiber ports. It provided some kinds of advanced network managed function, like as: MW-Ring redundancy ring network, VLAN, Trunking, Quality of Service, Speed control, port mirroring, fault alarm and firmware upgrade online. Standard Industry design can satisfied every requirement of the industry scene. All components used industry grade, it takes products high reliability.

MW-Ring^{TM} is an arithmetic designed as a rapid redundancy network. It provided recover technology for fault of rapid redundant network, the recovery time<20ms. Product accorded to CE, FCC standard and Industry grade 4 design requirement, support 2 redundant power input and 1 channel relay alarm output, and -40～75℃ working temperature, can meet all kinds of Industrial environment requirement.

➤ Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Power system applications
- High Way & Toll Station Surveillance
- Transformer Substation Communication System
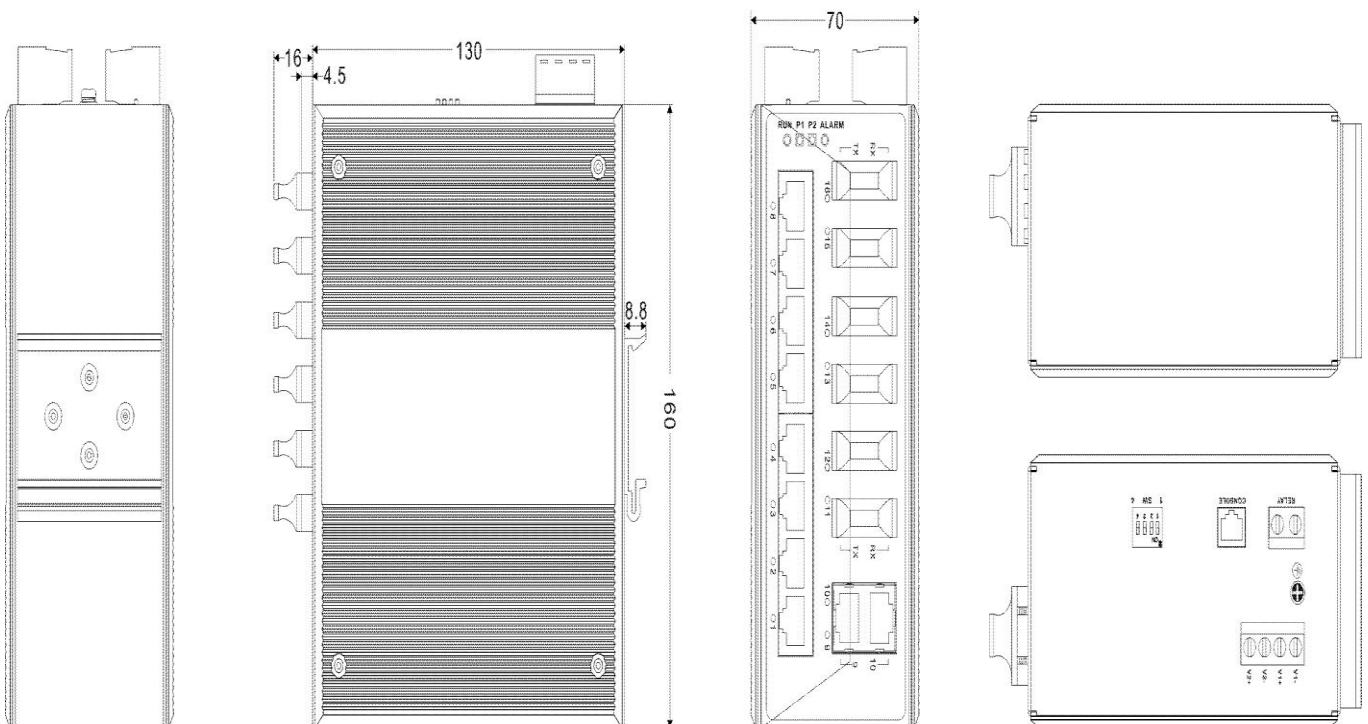- Oil of GPRS data acquisition system

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➢ **Specification**

Technology	
Standard	Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W
Protocol	ARP, ICMP, TCP, DHCP, HTTP, Telnet, MW-Ring, RSTP, SNMP
Flow control	IEEE802.3x flow control, back press flow control
Function	
Switch function	MW-Ring, QOS, 802.1QVLAN, RSTP, SNMP, Port trunking, static multicast filter, port mirroring, bandwidth management, broadcast storm control, port flow statistics, upgrade online, up and download configuration file, user name access system
MW-Ring	Support Single, Couple, Chain, Dual homing
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
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
Console port	debug serial port carry out CLI command
Alarm port	2 bit terminal block,1 channel relay alarm output
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 (1~16)
Power supply indicator	P1, P2
Alarm indicator	Alarm
Power supply	
Input Voltage	24VDC (12~48VDC)
Input method	4 bits 7.62mm terminal block
Support DC dual power supply redundancy	
Overload current protect	1.2A
Consumption	
No-load consumption	9.00W@24VDC
Full-load consumption	10.73W@24VDC
Working environment	
Working temperature	-40～75℃

Storage temperature	-40～85℃
Relative Humidity	5%~95 %(no condensation)
Mechanical Structure	
Shell	IP30 protect grade, metal shell
Installation	DIN rail mount
Size (W×H×D)	70mm×160mm×130mm
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 3
	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, PAL, UL508 (Pending)
Warranty	5 years

➢ **Dimension**

➢ Ordering Information

Model NO.	Description
IES3016-6F (M)	10 port 10/100Baes-T(X)+ 6 port 100Base-FX Multi-mode SC/ST/FC, 12-48VDC
IES3016-6F (S)	10 port 10/100Baes-T(X)+ 6 port 100Base-FX Single-mode SC/ST/FC, 12-48VDC
IES3016-6F (SS)	10 port 10/100Baes-T(X)+ 6 port 100Base-FX single-mode,single fiber SC/ST/FC,12-48VDC

➢ Packing List

- Industrial Ethernet switch IES3016-6F (plus terminal block)×1
- User manual ⅹ 1
- CD ⅹ 1
- Certificate of quality ⅹ 1
- Warranty card ⅹ 1