



◆ 16-port 10/100M Ethernet + 4-port Gigabit SFP Din-Rail Managed

➤ Features

- Support 16-port 10/100M RJ45 +4 Gigabit SFP ports;
- Support indicator lights for status display;
- Support static multicast filtering , IGMP Snooping;;
- Supports broadcast storm suppression and port rate control;
- Support MW-Ring patent redundance technique (failure recovery time <20ms);
- Support industrial dual power input backup;
- Support power off status relay alarm output;
- Support managed function such as VLAN, QoS, Trunking and port mirroring;
- Wide temperature range design ,fanless thermal design;
- Satisfy harsh industrial environment.



➤ Introduction

IES3020-4GS is an industrial grade, managed and redundancy Ethernet switch which supports 16-port 10/100M RJ45 +4 Gigabit SFP 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. MW-Ring can bring your Ethernet to intelligent redundancy. Standard Industry design, can satisfied every requirement of the industry scene. All components used industry grade, it takes products high reliability. It provided wide voltage power supply input.

MW-Ring™ is designed as a rapid redundancy network arithmetics . It provided recover technology for fault of rapid redundant network, the recovery time<20ms.

➤ Application Industries

- HD monitor transmission and power supply
- Wireless AP layout transmission and power supply
- Network telephone transmission , intelligent house and home system
- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Security protection system, TV medical treatment
- Long-distance Multi-media Schooling, Campus monitoring
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com project

➤ Specification

Technology

Standard	Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W,
Redundancy Protocols	ARP, ICMP, TCP, DHCP, DNS, HTTP, Telnet, MW-Ring, RSTP, SNMP
Flow control	IEEE802.3x flow control, back press flow control
Multicast	Support IGMP v1/v2, IGMP snooping, GMRP, Static Multicast
Switch function	Support VLAN, GVRP, Trunking, Flow control, Rate limitation
MW-Ring Management	Support Single, Couple, Chain, Dual homing Support the Console, the WEB management. Support SNMP v1/v2 Support unified upper computer management
Switch Delay	<5 μs
Switch Bandwidth	8.8Gbps
MAC Table Size	8K
Priority Queues	4
VLAN Numbe	4096
IGMP Groups	256

Interface

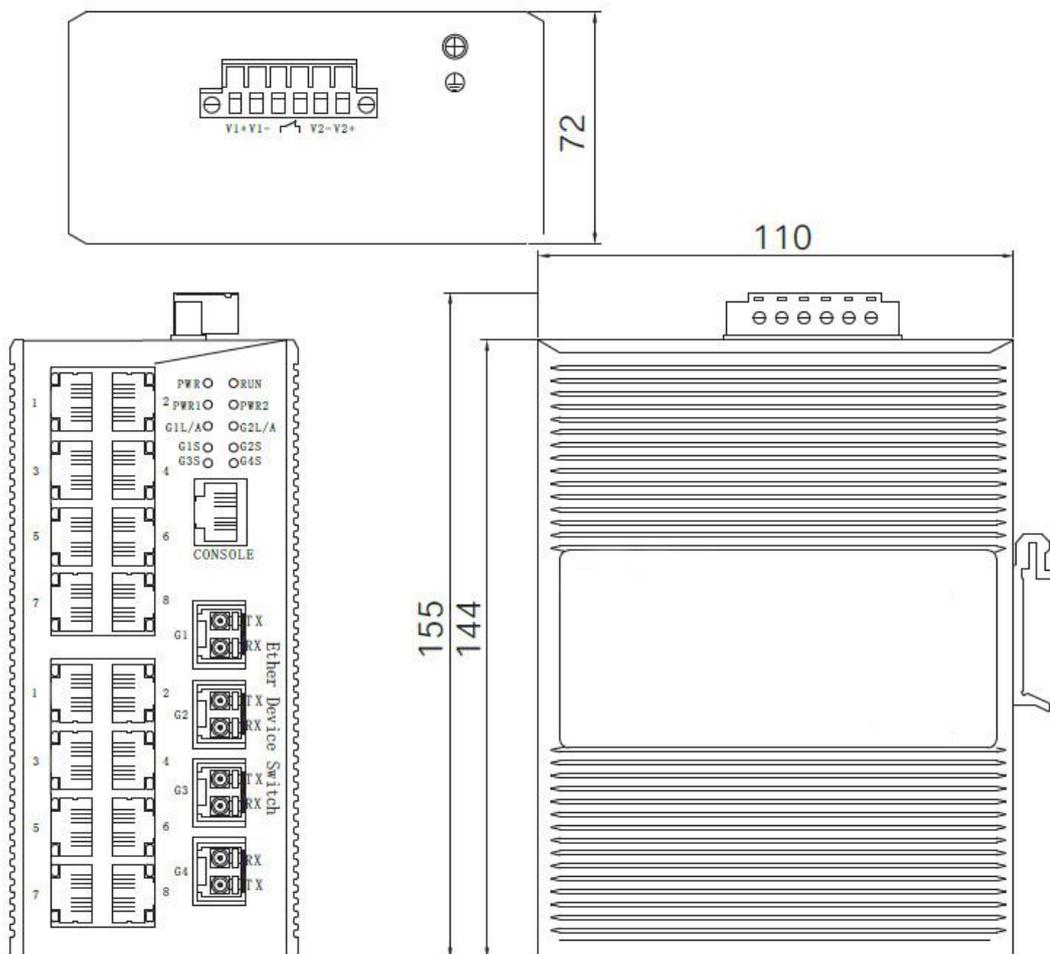
Electric port:	10Base-T/100/1000Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect
1000M optic fiber port	1000Base-FX, LC connector
Console port	debug serial port carry out CLI command
Alarm port	2 bit terminal block, 1 channel relay alarm output
Transfer distance	
Twisted cable	100M (standard CAT5/CAT5e cable)
Multi-mode	1310nm, 2/5Km
Single-mode	1310nm, 20/40/60Km, 1550nm, 80/100/120Km

Power supply

Input Voltage	DC12~48V (Dual power redundant input)
Type of input	3 bits terminal block
Power Consumption	<11w (MAX)
Working environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Relative Humidity	5%~95 % (no condensation)
Mechanical Structure	
Shell	IP40 protection, aluminium alloy shell
Installation	3.5-inch din-rail mounting
Size (W×H×D)	150mm×128mm×72mm
Weight	1.5kg
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
IES3020-4GS	16-port 10/100M Base-T(X) +4-port Gigabit SFP, DC12-48V
IES3020-4GS	16-port 10/100M Base-T(X) +4-port Gigabit SFP, AC/DC220V

➤ Packing List

- Industrial Ethernet Switch ×1
- User manual x 1
- Certificate of quality x 1
- Warranty card x 1