



◆ 4 ports 10/100 Base-TX+4 ports 100M fiber+4 ports RS485/422

➤ Features

- Support 4 port 10/100Base-TX+ 4 port 100M fiber+ 4 port RS-485/422
- Support MW-Ring™ redundant network patent technology(Faulty recovery time<20ms)
- Support IEEE802.1Q VLAN configuration, Control broadcast storm effectively
- Support port bandwidth limited function, optimize bandwidth utilize
- Support IEEE802.1p, QOS
- Support RSTP
- Support SNMP
- Support based on socket application access
- Support Sever, Client, UDP based mode and Sever, UDP advanced mode
- Support Windows serial driver procedure mode
- Support TCP, UDP, ARP, ICMP and DHCP protocol
- Support cross-gateway and cross-router communication
- Specific serial self-adapt function (Realcom)
- Support Web, CLI, Telnet management
- Support 2K MAC address table
- Support 2 power supply input and 1 relay alarm output
- Support port line and redundant network faulty/unusual, local and remote alarm
- Support IGMP snooping, static multicast filter, port trunking and port mirroring
- High strength iron shell, IP40 protection
- Industrial 4 class design
- Redundant 24VDC power supply input(12~48VDC)
- -40~85°C working temperature
- DIN-rail, wall mounting installation



➤ Introduction

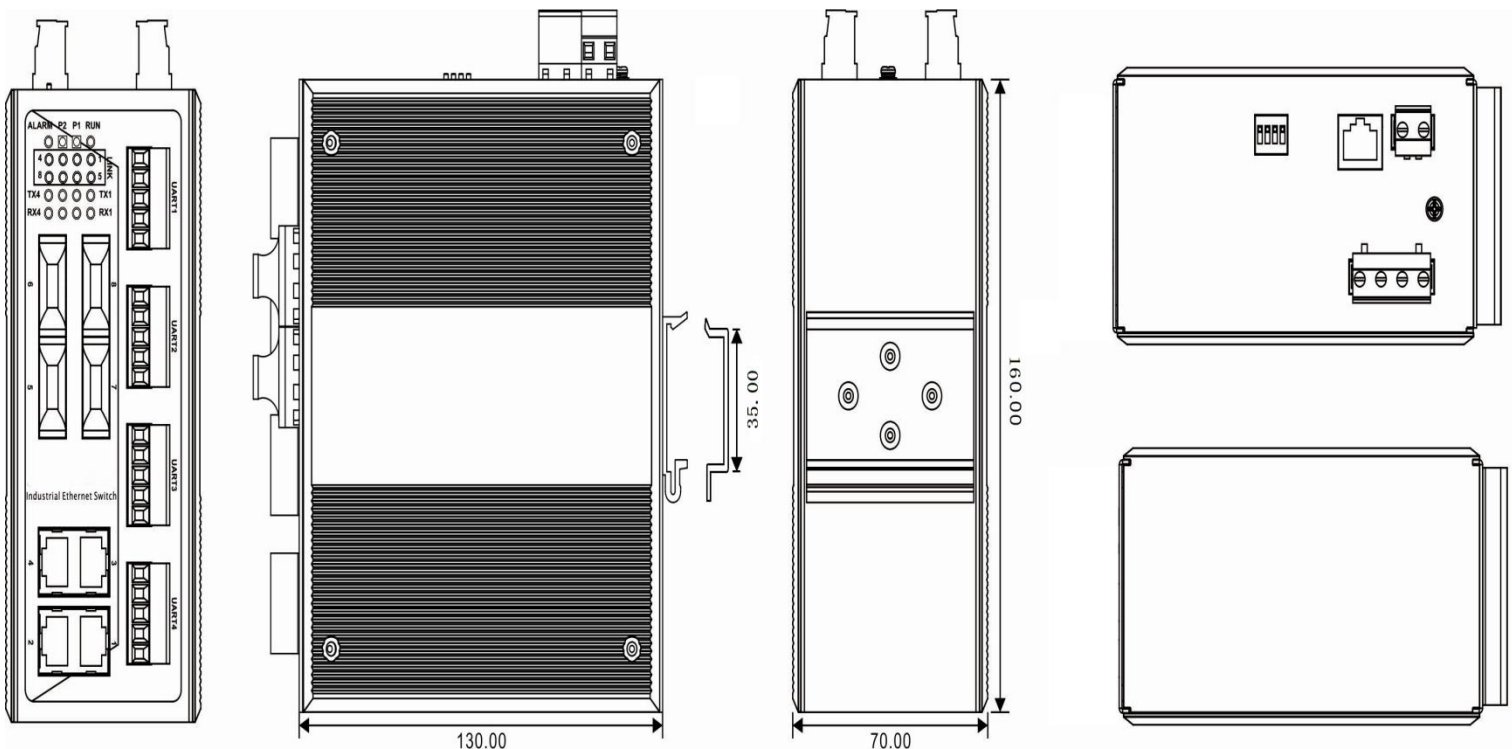
IES308-4F-204 is a industrial, management, redundant industrial Ethernet switch and integrate 4 port RS-485/422 serial device server, it support 4 port 10/100M Ethernet(RJ45), 4 port 100M fiber, 4 port RS-485/422, 2 redundant 12~48VDC power input and 1 relay alarm output, it adopt MW-Ring redundant technology (Recovery time<20ms), users can set the redundant easily to increase network reliability, furthermore, it can also support numerous intelligent network management functions, like as IGMP, RSTP, 802.1Q VLAN, QOS, port trunking and port mirroring etc. It adopted no fan, low power consumption design, IP40, corrugate high strength iron shell, the performance is more steadily. It accorded with CE, FCC standard and Industrial 4 class, DIN rail installation and wide operating temperature (-40~85C), it can satisfied some kinds of industrial environment, it can provide reliable and quickly solution for your Ethernet device.

➤ Specification

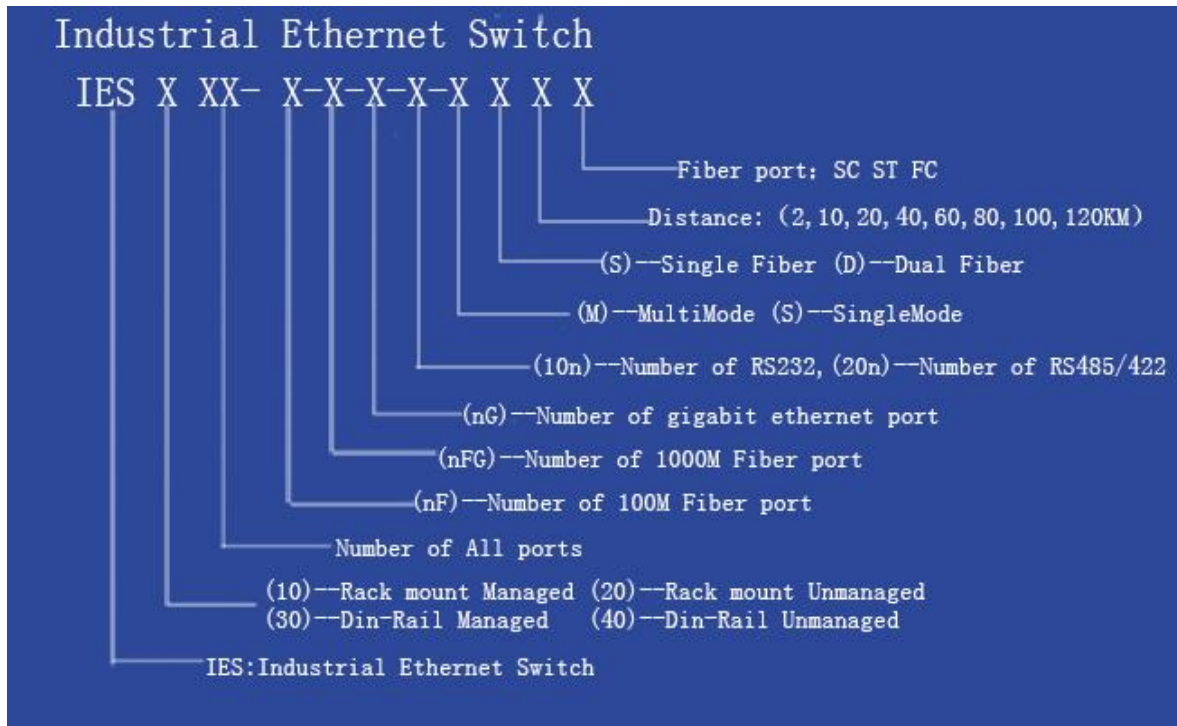
Technology	
Standard	IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W
Protocol	ARP, ICMP, TCP, UDP, DHCP, DNS, HTTP, Telnet, MW-Ring™
Flow control	IEEE802.3x, back pressure control
Function	
Function:	MW-Ring™, QOS, 802.1Q VLAN, port-trunking, static multicast filter, port mirroring, Broadcast storm control, flow statistics, upgrade online, up and download configuration file
MW-Ring™	Single, Couple, Chain, Dual homing ring.
Serial device server	4 port serial device sever, each port support 4pcs TCP or UDP session connection
Interface	
Ethernet	10/100Base-TX self-adapt RJ45 port.
Fiber port	100Base-FX (SC/ST/FC)
Console port	Procedure debug (RS-232), RJ45
Alarm port	2 bit 7.62mm terminal block, 1 channel relay alarm output
Serial	
RS-422 signal	T+, T-, R+, R-, GND
RS-485 signal	D+, D-, GND
Parity	None,Even,Odd,Space,Mark
Data bit	5bit,6bit,7bit,8bit
Band rate	300~115200bps
Direction control	RS485 side adopt ADDC technology, auto detect and control data transfer direction
Loading	RS-485/422 side support 32 nodes loop back
Protection	isolation: 2KV, 15KV static protection.
Connector	5 bit terminal block
Transfer distance	
Twisted cable	100m(CAT5/CAT5e)
Multi mode fiber	1310nm,2Km
Single mode fiber	1310nm, 20Km, 1310nm, 40Km, 1310nm, 60Km, 1550nm, 80Km
RS-485/422	1200m
Exchange attribute	
100M transmit speed	148810pps
Transfer	Store and forward
System exchange bandwidth	1.6 G
Buffer memory	1MKbits
Support 2K MAC address table	
LED indicator	
Power supply indicator	PWR
Alarm indicator	Alarm
System indicator	Run
Ethernet port indicator	Link/Act (1-8)

Serial port indicator	TX(1-4), RX(1-4)
Power supply	
Input voltage	24VDC(12~48VDC)
Terminal block	4 bits 7.62mm terminal block
None load consumption	4.8W@24VDC
Full load consumption	6.9W@24VDC
Support inside over-current 4.0A protection	
Support opposite connection protection	
Mechanical	
Shell	IP40, high strength iron shell.
Installation	DIN Rail
Dimension (W×H×D)	160 mm×70mm×130mm
Weight	1021g
Environmental	
Operating Temperature	-45 ℃ to 85 ℃
Storage Temperature	-45 ℃ to 85 ℃
Relative Humidity	10 to 95% (non-condensing)
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(PFM), Level 5
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Warranty time	5 years
Certification	CE, FCC, RoHS, UL508(Pending)

➤ Dimension



➤ Ordering Information



Model NO.	Description
IES308-4F-204(M)	4 ports 10/100Base-T(X)+4 ports 100Base-FX+4 port RS-485, Multi-mode,2Km, SC/ST, DC12-48V
IES308-4F-204(S)	4 ports 10/100Base-T(X)+4 ports 100Base-FX+4 port RS-485, Single-mode,20Km, SC/ST,DC12-48V
IES308-4F-204(SS)	4 ports 10/100Base-T(X)+4 ports 100Base-FX+4 port RS-485, Single-mode,single fiber, 20Km, SC/ST,DC12-48V

➤ Packing List

- IES308-4F-204 Industrial Ethernet Switch×1
- User manual ×1

