

Industrial Ethernet Switches IES1028-12F-4GS

◆ 12-port 10/100M Ethernet + 12-port 100Base-FX + 4-port Gigabit (SFP slot) Managed Switch

> Features

- Support IEEE802.3, IEEE802.3u, IEEE802.3z, 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 Port based VLAN and IEEE 802.1Q VLAN
- Support absolutely and opposite priority, support IEEE802.1P, DSCP priority
- Support Based Tag port Tag trunking, IEEE802.3ad, 2 group trunking link
- Support MAC address learning, aging automatic
- Support rate control, Broadcast storm control
- Support configuration file up and download
- Support WEB configuration
- Support 8K MAC address
- Support static and dynamic IGMP
- Support bi-directional port mirroring
- Support 1 channel relay alarm output
- Industrial grade 4 design, -40-75 °C work temperature
- No fan deign, 19 inch rack mounting
- IP30 protection grade



Introduction

IES1028-12F-4GS is an industrial grade, managed and redundancy Ethernet switch which supports 12 Ethernet Ports, 12 Fiber ports and 4 Gigabit (SFP slot) 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-RingTM 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 1 channel power input and 1 channel relay alarm output, and -40 \sim 75 $^{\circ}\mathrm{C}$ working temperature, can meet all kinds of Industrial environment requirement. It can use in power, water conservancy, transportation area etc.

Application

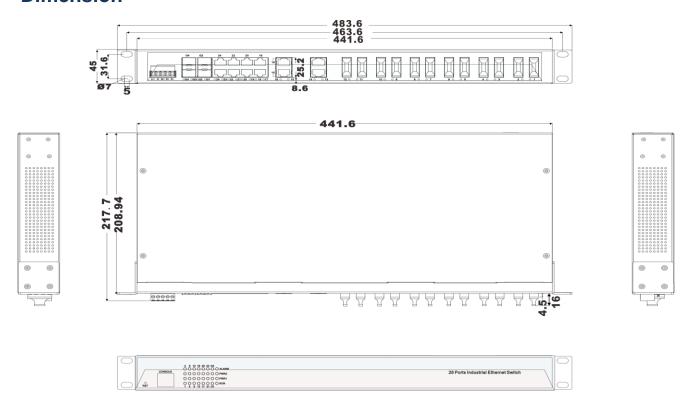
- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Power system applications
- High Way & Toll Station
 Surveillance
- Transformer Substation Communication System
- Oil of GPRS data acquisition system

Specification

Standard	Technology	
IEEE802.1Q, IEEE802.1p, IEEE802.1p, IEEE802.1W, IEEE802.3ad		Support IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x,
Protocol ARP, ICMP, TCP, DHCP, DNS, HTTP, Telnet, MW-Ring, RSTP, SNMP		
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 Exchange attribute 100M forward speed 148810pps 1000M forward filter speed 148810pps 1000M forward filter speed 1488100pps 12.8G MAC address table 8K Memory 4M Interface Electric port 100Base-TX auto speed control, Half/full duplex and MD1/MD1-X auto detect 100M optic fiber port 100Base-FX, SC/ST/PC connector, support single mode (20/40/60/80Kn optional), multi mode (2Km), wavelength :1310nn, 1550nn 1000M fiber port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nn, 2/5Km Single-mode 1310nn, 2/5Km Single-mode 1310nn, 2/5Kn Single-mode 1	Protocol	**
Function Switch function MW-Ring, QOS, 802.IQVLAN, 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 Exchange attribute 100M forward speed 148810pps 1000M forward filter speed 1488100pps Transmit mode store and forward System exchange bandwidth 12.8G MAC address table 8K Memory 4M Interface Electric port 10Base-T7100Base-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-FX (SFP port) 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 indicator Run indicator Run indicator Alarm Power supply indicator Run indicator Alarm Power supply indicator PWR Alarm indicator Alarm Power supply indicator Alarm Power supply indicator PWR Alarm indicator Alarm Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption 15.2W Full-load consumption 15.2W Full-load consumption 20.9W Working environment		
Switch function		EEDOODION NOW CONTROL CONTROL
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 Exchange attribute 100M forward speed 148810pps 1000M forward filter speed 1488100pps Transmit mode store and forward System exchange bandwidth 12.8G MAC address table 8K Memory 4M Interface Electric port 10Base-T7100Base-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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block, I channel relay alarm output Transfer distance Twisted cable 100M (standard CATS/CATSe cable) Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 2 Inik (1~24/G1~G4) Power supply indicator Run Interface indicator PWR Alarm indicator Interface indicator Interface indicator PWR Alarm indicator PWR A		MW-Ring OOS 802 10VLAN RSTP SNMP Port trunking static
control, port flow statistics, upgrade online, up and download configuration file, user name access system MW-Ring Support Single, Couple, Chain, Dual homing Exchange attribute 100M forward speed 148810pps 1000M forward filter speed 1488100pps Transmit mode store and forward System exchange bandwidth 12.8G MAC address table 8K Memory 4M Interface Electric port 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-FX (SFP port) Console port debug serial port carry out CLI command 4larm 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, 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 Alarm Power supply indicator Alarm Power supply indicator Alarm Power supply indicator Alarm Overload current protect 1.2A Consumption 15.2W Full-load consumption 15.2W Full-load consumption 2.99W Working environment	S WILLIAM TUNESTON	
configuration file, user name access system MW-Ring Support Single, Couple, Chain, Dual homing Exchange attribute 100M forward speed 148810pps 1000M forward filter speed 4188100pps Transmit mode store and forward System exchange bandwidth 12.8G MAC address table 8K Memory 4M Interface Electric port 100Base-T7100Base-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 2 bit terminal block, I channel relay alarm output Transfer distance Twisted cable 100M (standard CAT5/CAT5e cable) Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 20/40/60Km, 1550nm, 80/100/120Km LED indicator Run indicator Run Interface indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption 15.2W Full-load consumption 20.99W Working environment		
MW-Ring Support Single, Couple, Chain, Dual homing Exchange attribute 100M forward speed 148810pps 1000M forward filter 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 MDL/MDL-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 100Base-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 2/40/60Km, 1550nm, 80/100/120Km LED indicator Run Run indicator Run Alarm indicator Alarm Power supply indicator PWR Alarm indicator		
Exchange attribute 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-FX, SC/ST/FC connector, support single mode (20/40/60/80Km optional), multi mode (2Km), wavelength :1310nm, 1550nm 1000M fiber port 1000Base-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 2/40/60Km, 1550nm, 80/100/120Km LED indicator Run Nurrer Alarm Power supply indicator Alarm	MW-Ring	
100M forward speed 148810pps 1000M forward filter 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 MDL/MDL-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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 20/40/60Km, 1550nm, 80/100/120Km LED indicator Run Run indicator Run Run indicator Alarm Alarm indicator Alarm Power supply indicator PWR Alarm indicator Alarm Power supply 3		support single, couple, chain, suar noming
1000M forward filter speed 1488100pps Transmit mode store and forward System exchange bandwidth 12.8G MAC address table 8K Memory 4M Interface IOBase-TV100Base-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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block, I channel relay alarm output Transfer distance Twisted cable Wulti-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 20/40/60Km, 1550nm, 80/100/120Km LED indicator Run Run indicator Run Run indicator Alarm Power supply indicator PWR Alarm indicator Alarm Power supply indicator PWR Alarm voltage 100~240VAC Type of input 3 bits terminal block Ov		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 1000M fiber port 1000Base-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 20/40/60Km, 1550nm, 80/100/120Km LED indicator Run Run indicator Run Interface indicator Link (1~24/G1~G4) Power supply indicator Alarm Power supply 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption 15.2W Full-lo	*	
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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 2/5Km Single-mode 1310nm, 20/40/60Km, 1550nm, 80/100/120Km LED indicator Run Run indicator Run Interface indicator Link (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption		**
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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block, 1 channel relay alarm output Transfer distance Twisted cable 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 Interface indicator Link (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply indicator PWR Alarm indicator Alarm Power supply indicator 3 bits terminal block Overload current protect 1,2A Overload current protect 1,2A Consumption 15.2W Fu		
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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable Multi-mode 1310nm, 2/5Km Single-mode 1310nm, 20/40/60Km, 1550nm, 80/100/120Km LED indicator Run Interface indicator Link (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply 100~240VAC Type of input 3 bits terminal block Overload current protect 1,2A Consumption 15.2W Full-load consumption 15.2W Full-load conventent 20.9W		
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-FX (SFP port) Console port debug serial port carry out CLI command Alarm port 2 bit terminal block,1 channel relay alarm output Transfer distance Twisted cable 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 Run indicator Run Interface indicator Link (1~24/G1~G4) Power supply indicator Alarm Power supply PWR Alarm indicator Alarm Power supply 3 bits terminal block Overload current protect 1.2A Consumption 15.2W Full-load consumption 20.9W Working environment		
Electric port 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect 1000M 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-FX (SFP 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 Interface indicator Run Run Interface indicator Link (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Indicator Alarm Power supply Indicator PWR Alarm indicator Alarm Power supply Indicator Alarm Power supply Indicator Alarm Power supply Indicator Alarm Power supply Indicator Alarm Interface inductor I.2A Consumption 15.2W Full-load consumption 15.2W Full-load consumption 20.99W Working environment		
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-FX (SFP port) 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 (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Electric port	10Base-T/100Base-TX auto speed control, Half/full duplex and
optional), multi mode (2Km), wavelength :1310nm, 1550nm 1000M fiber port 1000Base-FX (SFP port) 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 (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	r	
optional), multi mode (2Km), wavelength :1310nm, 1550nm 1000M fiber port 1000Base-FX (SFP port) 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 (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	100M optic fiber port	100Base-FX, SC/ST/FC connector, support single mode (20/40/60/80Km
1000M fiber port 1000Base-FX (SFP port) 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 (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	yar ar ar pott	
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 (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	1000M fiber port	
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 Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	•	•
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 Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Alarm port	2 bit terminal block,1 channel relay alarm output
Multi-mode1310nm, 2/5KmSingle-mode1310nm, 20/40/60Km, 1550nm, 80/100/120KmLED indicatorRunRun indicatorRunInterface indicatorLink (1~24/G1~G4)Power supply indicatorPWRAlarm indicatorAlarmPower supplyInput VoltageType of input3 bits terminal blockOverload current protect1.2AConsumptionVolade consumptionNo-load consumption15.2WFull-load consumption20.9W	Transfer distance	
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 Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Twisted cable	100M (standard CAT5/CAT5e cable)
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 Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Multi-mode	1310nm, 2/5Km
Run indicator Run Interface indicator Link (1~24/G1~G4) Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Single-mode	1310nm, 20/40/60Km, 1550nm, 80/100/120Km
Interface indicator Power supply indicator Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption Working environment	LED indicator	
Power supply indicator PWR Alarm indicator Alarm Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Run indicator	Run
Alarm indicator Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Interface indicator	Link (1~24/G1~G4)
Power supply Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Power supply indicator	PWR
Input Voltage 100~240VAC Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Alarm indicator	Alarm
Type of input 3 bits terminal block Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Power supply	
Overload current protect 1.2A Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Input Voltage	100~240VAC
Consumption No-load consumption 15.2W Full-load consumption 20.9W Working environment	Type of input	3 bits terminal block
No-load consumption 15.2W Full-load consumption 20.9W Working environment	Overload current protect	1.2A
Full-load consumption 20.9W Working environment	Consumption	
Working environment	No-load consumption	15.2W
	Full-load consumption	20.9W
Working temperature $-40 \sim 75 ^{\circ}\text{C}$	Working environment	
	Working temperature	-40∼75℃

Storage temperature	-40∼85°C
Relative Humidity	5%~95 %(no condensation)
Mechanical Structure	
Shell	IP30 protect grade, metal shell
Installation	19" 1U rack
Size $(W \times H \times D)$	441.6mm×45mm×208.9mm
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
IES1028-12F-4GS (M)	12 port 10/100Baes-T(X) + 12 port 100Base-FX Multi-mode SC/ST/FC+
	4 port gigabit (SFP slot), 100-240VAC
IES1028-12F-4GS (S)	12 port 10/100Baes-T(X) + 12 port 100Base-FX Single-mode
	SC/ST/FC+4 port gigabit (SFP slot), 100-240VAC
IES1028-12F-4GS (SS)	12 port 10/100Baes-T(X) + 12 port 100Base-FX single-mode, single fiber
	SC/ST/FC+ 4 port gigabit (SFP slot), 100-240VAC

Packing List

- Ethernet switch IES1028-12F-4GS (plus terminal block)×1
- User manual x 1
- CD x 1
- Certificate of quality x 1
- Warranty card x 1
- Power cable x 1







