

26-Port Full Gigabit Managed Industrial Ethernet Fiber Switch

(IS700-24E2C2F-30W)

Product Description

The IS700-24E4F-30W is a full gigabit managed industrial Ethernet fiber switch. It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding.

The IS700-24E4F-30W has L2+ full network management function, supports IPV4 management, static route full line rate forwarding, complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It meets the needs of various industrial Ethernet application environments and is suitable for industrial, intelligent transportation, rail transit, power industry, mining, petroleum, marine, metallurgical and green energy construction to form a cost-effective, stable and reliable communication network.



Product Features

● Gigabit access, Gigabit SFP port uplink

- ✧ A combination of Gigabit Ethernet port and Gigabit SFP port to meet the networking requirements of various scenarios.
- ✧ Support non-blocking wire-speed forwarding.
- ✧ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

● Strong business processing capability

- ✧ IEEE802.1Q VLAN, flexible VLAN division, and QinQ configuration.
- ✧ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ✧ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- ✧ IGMP V1/V2 and IGMP Snooping.
- ✧ STP/RSTP/MSTP.
- ✧ Static and dynamic aggregation.

● Security

- ✧ 802.1X authentication.
- ✧ Port isolation, Storm control.
- ✧ IP-MAC-VLAN-Port binding.

● Stable and reliable

- ✧ Low power consumption, No fan, aluminum shell.
- ✧ Self-developed power supply, high redundancy design, providing a long term and stable power output.
- ✧ CCC, CE, FCC, RoHS.
- ✧ The user-friendly panel can show the device status through the LED indicator of PWR, Link.

Product Parameters

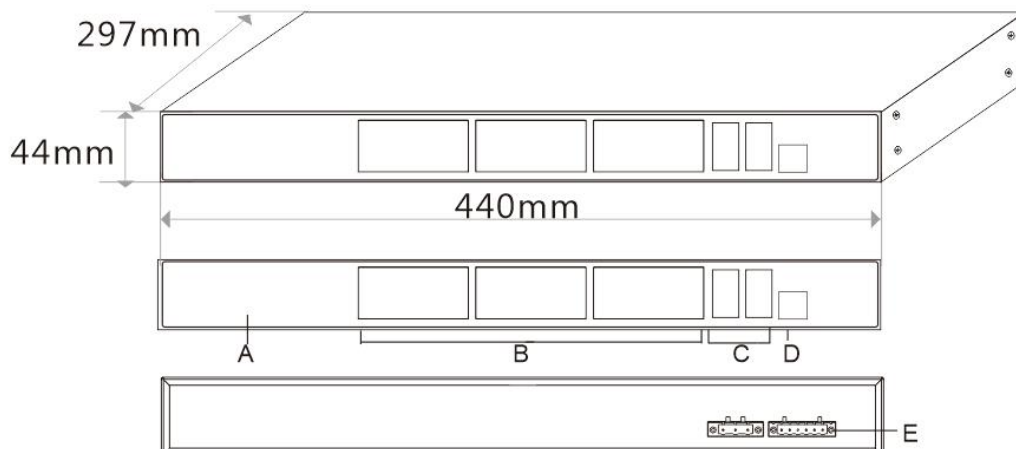
Model	IS700-24E4F-30W	
Interface Characteristics		
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data)	
	4*100/1000Base-X SFP ports(Data)	
	1*Console port(115200,N,8,1)	
	1*AC100-240V power input port	
	1 set of DC12-48V power input port (support anti-reverse)	
	Relay switch port (FAULT)	
Ethernet Port	Port 1-24 support 10/100/1000Base-T(X) auto-sensing,full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
	100BASE-TX: Cat5 or later UTP(≤100 meter)	
	1000BASE-T: Cat5e or later UTP(≤100 meter)	
SFP Slot Port	Gigabit SFP optical fiber interface, default not included optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable/ Distance	Multi mode: 850nm/0 ~ 500M, single mode: 1310nm/0 ~ 40KM, 1550nm /0 ~ 120KM.	
Chip Parameter		
Network Management Type	L2+	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX	
	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	192Gbps	
Forwarding	41.7Mpps	
Rate@64byte		
MAC	8K	
Buffer Memory	4.1M	
Jumbo Frame	10K	
CPU(Hz)	500M	

DRAM	1G
Flash	256M
LED Indicator	Power:PWR (yellow), System :SYS (yellow), Network: Link (yellow), Fiber port: L/A (green)
Reset Switch	Yes, Press and release for 10 seconds to restore factory settings
Power Supply	
Total PWR / Input Voltage	60W (AC100-240V)
Power Consumption	Standby<18W, Full load<35W
Power Supply	Built-in power adapter, AC100~240V 50-60Hz 0.56A
Power Input Port	1*DC12-48V input port, 1*AC power input port, Relay switch port
	Dual power input ports, AC power supply priority, Support anti-reverse protection, Power-off automatic switching DC connection
Physical Parameter	
Operation TEMP / Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*297*44mm
Net /Gross Weight	<4.7kg / <5.4kg
Installation	Desktop, 19 inch 1U cabinet
Certification & Warranty	
Port Lightning Protection/ Protection Level	Lightning protection: 6KV 8/20us, Protection level: IP40
	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge
	IEC61000-4-3(RS):10V/m(80~1000MHz)
	IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV
	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)
	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s
	IEC61000-4-9(pulsed magnet field):1000A/m
	IEC61000-4-10(damped oscillation):30A/m 1MHz
	IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV

	IEC61000-4-16(common-mode transmission):30V; 300V,1s
	FCC Part 15/CISPR22(EN55022):Class B
	IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-32 (free fall)
	IEC60068-2-27 (anti shock)
	IEC60068-2-6 (anti vibration)
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.
Network Management Features	
Interface	IEEE802.3X (Full-duplex)
	Broadcast storm control based on port speed
	The speed limit of the message flow in the access port.
	The minimum particle size is 64Kbps.
	Port temperature protection setting
	Port green Ethernet Energy-saving setting
Layer 3 Features	L2+ Network management ,IPV4management, L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	Port configuration of Access, Trunk, Hybrid
	VLAN based on MAC,VLAN based on the protocol
	QinQ configuration,4K VLAN based on port, IEEE802.1q
Port Aggregation	LACP, Static aggregation
	Max 14 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Multicast	MLD Snooping v1/v2,Multicast VLAN
	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based Redirection
	Flow-based Rate Limiting
	Flow-based Packet Filtering
	8*Output queues of each port
	802.1p/DSCP priority mapping

	Diff-Serv QoS,Priority Mark/Remark
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL.
	ACL based on port and VLAN
	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
Security	ARP inspection,Anti-DoS attack
	AAA & RADIUS,MAC learning limit
	Mac black holes,IP source protection
	IEEE802.1X & MAC address authentication
	Broadcast storm control,Backup for host datum
	User hierarchical management and password protection
	IP-MAC-VLAN-Port binding SSH 2.0,SSL, Port isolation, ARP message speed limit
DHCP	DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay
Management	One-key recovery
	Cable Diagnose,LLDP
	Web Management (HTTPS)
	NTP,System work log,Ping Test
	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
	Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3
	NMS - Smart Network Management System Platform (LLDP+SNMP)
System	Category 5 Ethernet network cable
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;
	TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

Product size



A. Working indicator

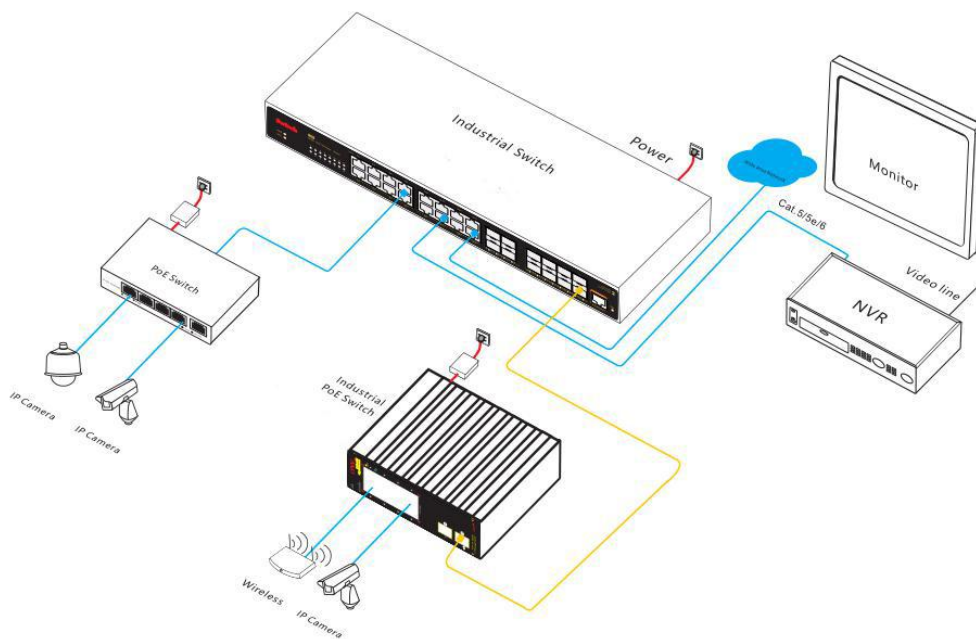
B. 24* 10/100/1000M RJ45 ports

C. 4*100/1000M SFP ports

D. Console port

E. Dual DC12-48V input port

Application



Order Information

Model	Description	Recommended Power Supply
IS700-24E4F-30W	L2+ managed industrial Ethernet fiber switch with 24*10/100/1000M RJ45 ports and 4*100/1000M SFP ports. Built-in 60W power adapter. Support dual AC and dual DC power supply input (Phoenix terminal connection).	30W
Note: The industrial Ethernet switch is not included SFP optical module by default and needs to be purchased separately.		

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	26-port full gigabit managed industrial Ethernet fiber switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits	1	SET
	User Guide	1	PC
	Warranty Card	1	PC