

# 10 Ports 100M Managed Industrial Ethernet Switch

## 8\* FE +2\*GF Managed Industrial Ethernet Switch



- Managed 8\*10/100M+2\*1000M SFP fiber Ports Industrial Ethernet Switch;
- Support L2+ full network management, network management and configuration;
- Switching capacity: 5.6Gbps, MAC table: 16K;
- Input voltage: DC12-48V, Redundant dual power 5-bit industrial terminals;
- IP protection level: IP40; Rail-type installation;
- Support to working time 35 years more;

**RoHS** **FC** **CE**

### Introduction

The XC-IS2710M is a managed industrial Ethernet switch. it has 8\*10/100Base-T RJ45 ports and 2\*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding.

The XC-IS2710M has the L2+ full network management function, IPV4/IPV6 management, software/static route forwarding, security protection mechanisms, complete ACL/QoS policies, and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability. Any port can be looped, supporting chain, star, Double star, ring, tangent ring, intersecting ring, coupling ring, self-healing within 20ms of the ring network. When a one-way network fails, communication can be quickly resumed to ensure uninterrupted communication of important applications. This series of models has high reliability, high security, and high manageability. XC-IS2710M industrial grade series products fully comply with industrial product design and materials. The shell is made of aluminum alloy to enhance heat dissipation performance, and has excellent industrial field environment adaptability (including mechanical stability, climatic environment adaptability, electromagnetic environment adaptability, etc. ), protection class up to IP40, support dual redundant power supply, low power fanless cooling technology, MTBF average trouble-free working time up to 35 years.

### TECHNICAL SPECIFICATION

Model	XC-IS2710M
Interface	8*10/100Base-T RJ45 ports (Data) 2*100/1000Base-X uplink SFP slot ports (Data) 1 * RS232 console port (115200, N,8,1) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)

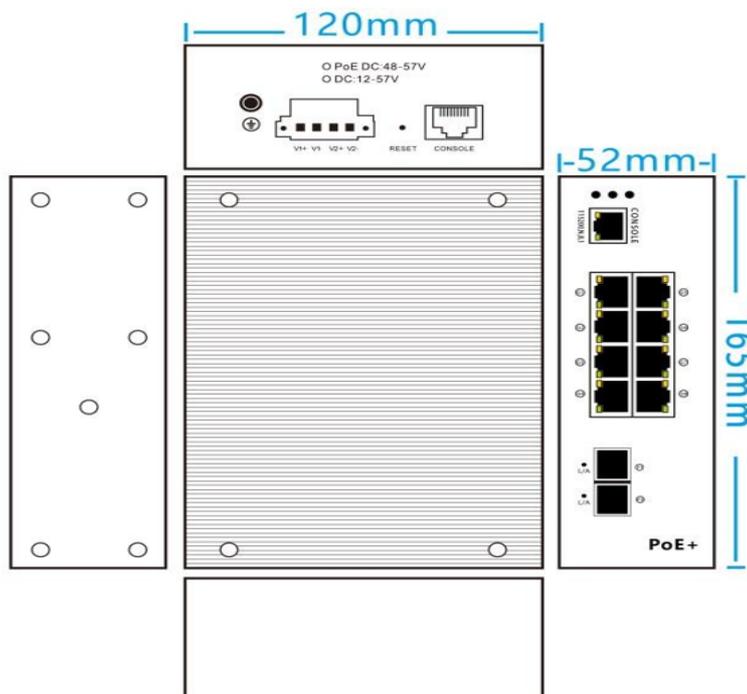
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP ( $\leq 100$ meter) 100BASE-TX: Cat5 or later UTP ( $\leq 100$ meter)
Optical Cable	Multimode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Ethernet Port Feature	Port 1-8 supports 10/100BaseT (X) automatic detection, full / half duplex MDI/MDI-X adaptive
SFP Port Characteristic	Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical module.
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3z 1000Base-X; IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	5.6Gbps (Non-blocking)
Forwarding Rate@64byte	4.17Mpps
MAC	16K
Buffer Memory	4M
Jumbo Frame	9.6K
Reset Switch	Yes, Press and hold the reset switch for 10s and release it to restore the factory settings
Operating Voltage	DC power supply, DC12-48V ultra-wide supply voltage, 5P Phoenix terminal connection, support anti-reverse protection
Power Consumption	Standby:<5W; Full load:<12W
LED	Power Indicator: PWR (green) ;system indicator's(green); Network Indicator: Link/Act (yellow);SFP Indicator: L/A (green);
Power Supply	No, optional 24V/24W industrial power supply;
Operation TEMP / Humidity	-40~+80°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+125°C;5%~95% RH Non condensing
Dimension	165*148*54mm
Net /Gross Weight	<1.3kg / <1.8 kg

Lightning protection / protection level	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable: ±4kV; data cable: ±2kV</p> <p>IEC61000-4-5(Surge): power cable:CM±4kV/DM±2kV; data cable: ±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave):CM 2.5kV, DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022): Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
<b>Business features (only restricted management function models)</b>	
Interface	<p>Support IEEE802.3x flow control (full duplex)</p> <p>Support for broadcast storm suppression based on port rate support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps.</p> <p>Support port temperature protection settings</p> <p>Support port EEE green Ethernet energy saving configuration</p>
Layer 3 Function	<p>L2+ network management function</p> <p>Support IPV4/IPV6 management</p> <p>Support layer3 soft routing (weak three tier) forwarding,</p> <p>Support different network segments, communication between different VLAN</p> <p>Support static routing / default routing 128, 1024 ARP software forwarding</p>
VLAN	<p>Support port based VLAN (4K), IEEE802.1q</p> <p>Support protocol based VLAN</p> <p>Support Voice VLAN</p> <p>Support for MAC address-based VLANs</p> <p>Support Access, Trunk, Hybrid three types of port configuration</p> <p>Support QinQ configuration</p>
Port Aggregation	<p>Support LACP</p> <p>Support static polymerization</p> <p>Support the largest 8 aggregation groups, each aggregation group supports 8 ports.</p>

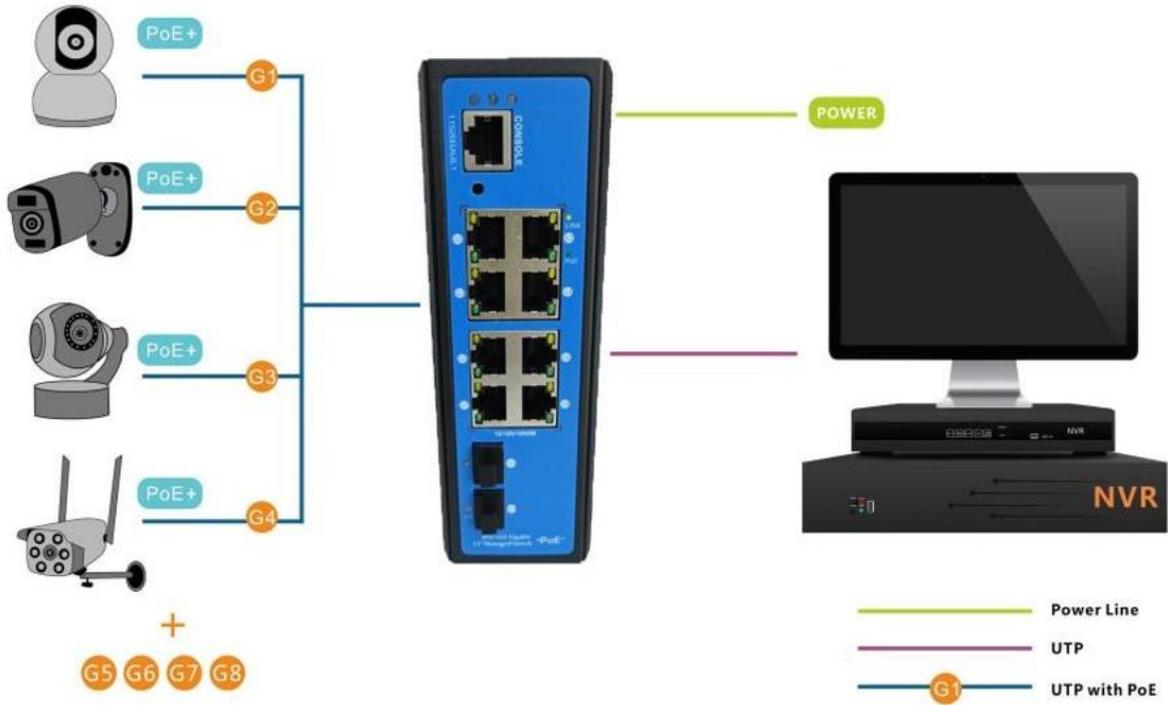
Spanning Tree	Support STP (IEEE802.1d) Support STPRSTP (IEEE802.1w) Support STP MSTP (IEEE802.1s)
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring. The self-healing time of the ring network is less than 20ms
Multicast	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most. Support the user's quick departure mechanism Support MLD Snooping V1/V2 Support multicast VLAN
Mirror	Bi-directional traffic mirroring supporting the basic port
QoS	Support Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) Support priority tag Mark/Remark Support stream-based packet filtering Support for stream-based redirection Support flow-based speed limit
ACL	Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL. Support ACL based on port and VLAN
Safety Characteristics	Support user grading management and password protection Support IEEE802.1X authentication / centralized MAC address authentication Support AAA&RADIUS authentication Support the number of MAC address learning restrictions Support MAC address black hole Support SSH 2.0 to provide secure passwords for user login. Support SSL to ensure data transmission security Support port isolation Support the speed limit function of ARP message Support IP source address protection Support ARP intrusion detection function Support against DoS attacks Support port broadcast message suppression Support host data backup mechanism Binding capabilities of IP+MAC+VLAN+ ports

<p>DHCP</p>	<p>Support DHCP Client Support DHCP Snooping Support DHCP Serve Support DHCP Relay</p>
<p>Management and Maintenance</p>	<p>Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration Support WEB network management (HTTPS) Support FTP, TFTP, Xmodem, SFTP file download management Support SNMP V1/V2C/V3 Support one bond reduction Support NTP clock Support system work log Support Ping detection Support cable state detection Support CPU instant utilization status view Support link layer discovery protocol LLDP Support X-CORN NMS intelligent management center</p>
<p>System Requirements</p>	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; Cat5e or later Ethernet cable; TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on every computer in the network.</p>

**DIMENSION**



APPLICATION



PACKING LIST

CONTENT	QTY	UNIT
10-ports 100M managed industrial Ethernet switch (XC-IS2710M)	1	SET
User Guide	1	PC
Warranty Card	1	PC