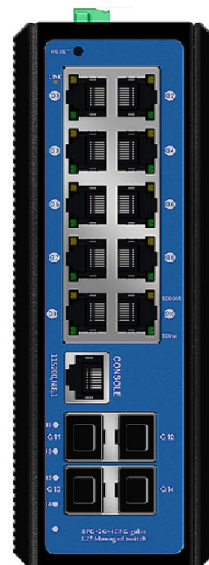


10-port 10/100/1000M Ethernet + 4-port Gigabit SFP, Din-Rail, Managed

➤ Features

- ☐ Support 10-port 10/100/1000M RJ45 + 4 Gigabit SFP ports;
- ☐ Support static multicast filtering, IGMP Snooping;
- ☐ Support MW-Ring redundancy technique (failure recovery time <20ms);
- ☐ Support STP/RSTP/MSTP;
- ☐ Support managed function such as VLAN, QoS, Trunking, and port mirroring;
- ☐ Support CLI, WEB, Telnet, SNMP management;
- ☐ Support RMON and private MIB table;
- ☐ Support firmware upgrade online;
- ☐ Support relay alarm output;
- ☐ Support indicator status display;
- ☐ Support IP40 protection, aluminum alloy shell, fanless design;
- ☐ Support Broadcast storm suppression;
- ☐ Support dual DC12-48V or single AC/DC 220V power supply;
- ☐ Power supply input support anti-reverse protection and non-polarity;
- ☐ Support over Voltage, over current, EMC protection;
- ☐ Support -40-75°C wide operating temperature range;
- ☐ DIN-Rail or wall Installation;
- ☐ Warranty: 5 years



➤ Introduction

UPCOM IES3014G-10G-4GS is a rugged industrial grade, Din-Rail, layer2, Managed Ethernet switch which supports 10-port 10/100/1000M RJ45 + 4 Gigabit SFP ports. It provided some kinds of advanced network managed function, such as: MW-Ring redundancy technology (failure recovery time <20ms), VLAN, multicast, Quality of Service, Speed control, port mirroring, fault alarm and firmware remote update, also support CLI, WEB, Telnet, SNMP management, provide a user-friendly web console interface for easy configuration.

ES3014G-10G-4GS is a standard Industrial design, IP40 protection, aluminum alloy shell, support Din-rail or wall installation, fanless design, EMC level 4 protection, dual power DC12-48V or single AC/DC220V optional, can satisfied the requirement of various industrial applications such as Industrial automation, smart grid, rail transportation industry, safely city, and new energy, etc.

➤ Application

- ☐ Intelligent Transportation System
- ☐ Industrial Automation
- ☐ Security Surveillance
- ☐ New Energy and Utilities

➤ Specification

Interface	10*10/100/1000Base-T RJ45 ports (Data) 4*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 (≤100 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-T: Cat5e or later UTP (≤100 meter)
Optical Cable	Multimode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Ethernet Port Feature	Port 1-10 supports 10/100/1000BaseT (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; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	256Gbps (Non-blocking)
Forwarding Rate@64byte	20.83Mpps
MAC	4K
Buffer Memory	1M
Jumbo Frame	10K
Power Supply Pin	1/2 (+), 3/6 (-)
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:<2.5W; Full load:<12W
LED	Power Indicator: PWR (green) ;system indicator's(green); Network Indicator: Link/Act (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*52mm

Net /Gross Weight	<1.2kg /<1.5kg
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	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	5 years, lifelong maintenance.
Interface	Support IEEE802.3x flow control (full duplex) 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. Support port temperature protection settings Support port EEE green Ethernet energy saving configuration
Layer 3 Function	L2+ network management function Support IPV4/IPV6 management Support layer3 soft routing (weak three tier) forwarding, Support different network segments, communication between different VLAN Support static routing / default routing 128, 1024 ARP software forwarding
VLAN	Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN Support Voice VLAN Support for MAC address-based VLANs Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration
Port Aggregation	Support LACP Support static polymerization Support the largest 8 aggregation groups, each aggregation group supports 8 ports.

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

