8-port Gigabit Ethernet + 4-port Gigabit/10G SFP+

➢ Features

- ☐ Support8-portGigabit Ethernet+ 4-portGigabit/10G SFP+ + 1 Console port;
- ☐ Support IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3z /ab,IEEE802.1Q, IEEE802.1p,IEEE802.1d/w;
- ☐ PoE Power Management, PoE Watchdog based on data stream detection;
- ☐ Compatible with both IEEE802.3at(30W) and IEEE802.3af(15.4w);
- ☐ Support STP(802.1D), RSTP(802.1w), MSTP(802.1s), ERPS;
- ☐ Support SNMP v1/v2/v3;
- ☐ Support IGMP Snooping, Static multicast filtering and MLD Snooping;
- ☐ Support 802.1x port and AAA Certification, Enhance network security;
- ☐ Support WEB, Telnet, CLI,SSH management;
- ☐ IP40 protection, rugged high-strength metal case, DIN35 Rail mounting;
- ☐ Support Redundant power supply access, support anti-reverse connection;
- ☐ Support Port lightning protection, Surge: General Mode 6KV, Differential Mode2KV,ESD: 15KV;
- ☐ Support EMC EN55032 standard;
- ☐ Industrial grade 4 design, -40-75ºC working temperature;
- ☐ Support dual power supply DC12-55V;
- ☐ Support DIN-Rail or wall Installation;
- ☐ Warranty: 3 years

➢ Introduction

The IES1012G-8G-4X is a high-performance, cost-effective, high-end intelligent gigabit managed ring networkindustrial-grade optical fiber switch. Support 4 1G/10G optical ports (SFP slots) + 8 10/100/1000Base-T (X) port. It adopts the self-developed IES1012G-8G-4X ring network technology (network failure self-healing time <20ms), users can easily set a redundant ring network to increase network reliability, and also supports CLI, SNMP, WEB, VLAN management, support Console/Telnet command line management. Rich QoS features for data flow control and management, support ring protocol,RSTP and STP Ethernet redundancy, support port-based VLAN, IEEE 802.1Q VLAN and GVRP protocol. The product also uses fanless, low power consumption, industrial-grade design, can adapt to harsh industrial environments, and has an operating temperature range of -40 to 85°C, which can meet the requirements of various industrial sites.

This series of industrial grade switches can be widely used in Intelligent Transportation System, Electric Power, assembly automation, subway PIS, electric power SCADA, sewage treatment, Security Surveillance, rail transportation, military and other industries. It is a low power consumption Industrial Network Switch.

➢ Specification

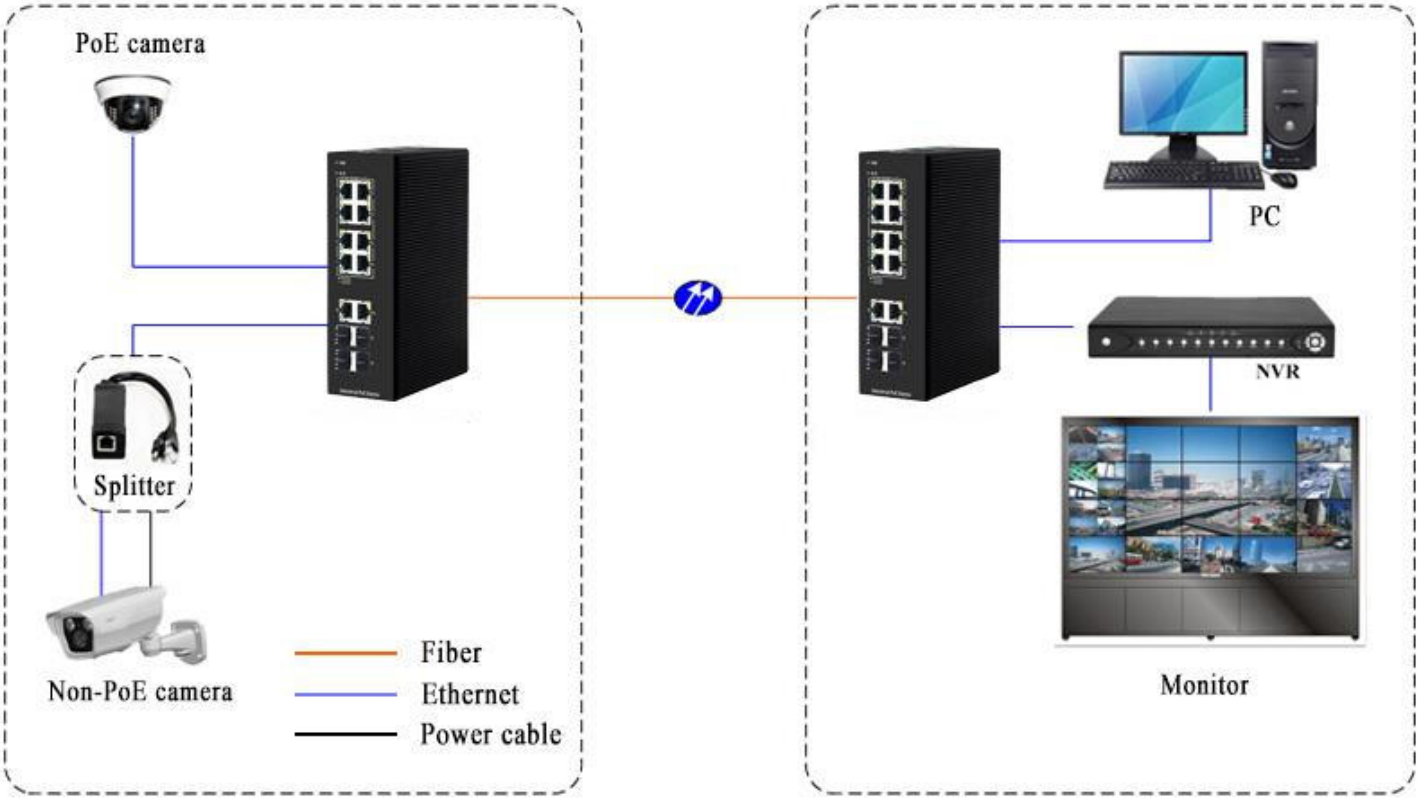
Specification	
Product Name	14 ports Gigabit Managed Industrial POE Switch
Port Definition	8-portGigabit Ethernet+ 4-portGigabit/10GSFP+ + 1 Console Port
Network Protocols	IEEE802.3
	IEEE802.3u
	IEEE802.3z
	IEEE802.3ab
	IEEE802.3x
	IEEE802.1d
	IEEE802.1w
PoE Parameters	POE Standard: IEEE802.3at (30W) and IEEE802.3af (15.4w)
	Each port Max：15.4 W (IEEE 802.3af) Each port Max：30 W (IEEE 802.3at)
	PoE Compatibility：IEEE 802.3af/at adaptive
	POE Power Output: DC48-55V
	POE power supply core：1/2+ ; 3/6-
Network Media	10BASE-T: Cat3,4,5 UTP(≤100 m)
	100BASE-TX: Cat5 or above UTP(≤100 m)
	1000BASE-TX: Cat5 or above UTP(≤100 m)
Gigabit Fiber	LC connector
	Multi-mode：850nm, 1310nm distance：550m/2Km
	Single-mode：1310nm, 1550nm distance：20/40/80/100/120Km
Hardware parameter	
Bandwidth	28Gbps
Package Forwarding Rate	20.83Mpps
RAM	128MB
Flash	16MB
Packet Buffer Memory	4M
Jumbo frame	9.6Kbytes
VLANs	4096
MAC address	8K
Forwarding mode	Store-and-forward
L2 management	
	Support for enabling/disabling ports

Port Management	Support speed, duplex, MTU settings, etc.
	Support flow control flow control settings
	Support port mirroring
	Support port in/out direction
	Support port speed limit
	Support port isolation setting
	Unknown unicast, multicast, broadcast storm suppression
STP	Standard Spanning Tree (STP) 802.1d
	Rapid Spanning Tree (RSTP) 802.1w
	Multiple Spanning Tree (MSTP) 802.1s
Ring Network Protocol	ERPS
Link Aggregation	Support static manual aggregation
	Support LACP dynamic convergence
VLAN	Support VLAN and IEEE 802.1Q VLAN
GVRP	Support GVRP, Global configuration, port configuration
IGMP Snooping	Support static add / delete
MAC	Support static add/delete
	MAC address learning limit
	Support dynamic aging time settings
L3 (Layer 3 Switching) and Router Function	
Interface Configuration	Support virtual VLAN interface
ARP	Support check ARP
Router Function	Static Router
Extended Function	
ACL	Based on the source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number
	Support time-range time management
QOS	Based on 802.1p (COS) classification
	Based on DSCP classification
	Based on the source IP, destination IP, port number classification
	Support SP, WRR, DRR scheduling strategy
	Support traffic speed limit CAR
LLDP	Support LLDP link discovery protocol
User Setting	Support add/delete user
Log	User login, operation, status, event log
Port security	Dyning Gasp, SNMP Trap

Prevent Attack	DOS defense
	Support for CPU protection, limited to send CPU message rate ARP binding (IP, MAC, PORT binding)
System Management	Device reset, configuration save/restore, upgrade management, time setting, etc.
Management Function	
CLI	Support serial command line management
TELNET	Support serial command line management
SSH	Support SSHv1/2 remote management
SNMP	Support v1/2/3
WEB	Support two layers of settings
PoE	PoE Power management
LED Indicator	
PWR	Lighting： Powered
	Off： No Power
SYS	Lighting： System is operating normally
	Un-Light： System is not running
Yellow light	Lighting： PoE Powered
	Un-Light： No PoE Powered
Green light	Slow Flashing： 10/100/1000 Link normally
	Un-Light： Link disconnect
	Flashing： Link data transmission
G11-G14	Lighting： Fiber Connection is Normal
	Un-Light： Disconnect
	Flashing： Link data transmission
Power Supply	Type of input: 4 PIN Industrial Terminal（block V1+V1- V2+ V2-）
	Input Voltage: DC12~55V
Physical structure	Shell protect grade: IP40
	Installation: DIN rail
	N.W:： 1KG G.W: 1.3KG（without power supply）
	Product Dimension (L×W×H): 188MM*130MM*65MM
	Package Dimension (L×W×H): 250MM*210MM*88MM
Working Environment	Operating temperature: -40～75°C
	Storage temperature: -40～85°C
	Humidity: 5%~95 % (No condensation)
Industry Standard	EMI: FCC Part 15, CISPR (EN55032) class A

	EMS: EN61000-4-2 (ESD)
	EN61000-4-4 (EFT)
	EN61000-4-5 (Surge)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Certification	CE mark, commercial
	FCC Part 15 Class B
	VCCI Class B
	EN 55032 , Class A
MTBF	100,000 hours
Warranty	5 years

➢ Connection



➢ Ordering Information

Model NO.	Description
IES1012G-8G-4X	8-portGigabit Ethernet+ 4-portGigabit/10GSFP+, DC12-55V, Managed

➢ Packing List

- ☐ Industrial Ethernet Switch *1
- ☐ User manual * 1
- ☐ Certificate of quality * 1
- ☐ Warranty card * 1