

## 8-port 10/100/1000M Ethernet + 4-port Gigabit SFP, Din-Rail, Unmanaged

#### Features

- Support 8-port 10/100/1000M Base-T(X) + 4-port Gigabit SFP;
- Plug-and-play, no configuration is required;
- 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:5years



## > Introduction

UPCOM IES4012G-8G-4GS is a rugged industrial grade, Din-Rail, layer2, Unmanaged Ethernet switch which supports 8-port 10/100/1000M Base-T(X) +4-port Gigabit SFP. Plug and play, easy to install, no configuration is required, can be operated at wide temperatures range from -40 to 75°C. two independent power circuits ensure the normal operation of the device when one power supply is faulty.

IES4012G-8G-4GS adopts standard Industrial design, IP40 protection, aluminum alloy shell, support Din-rail or wall installation, fanless design, support EMC level 4 protection, dual power DC12-48V or single AC/DC220V optional, can meet the requirement of various Industrial automation, Data Center Network, Intelligent Transportation System, Electric Power Industry, and new energy, etc.

## > Application

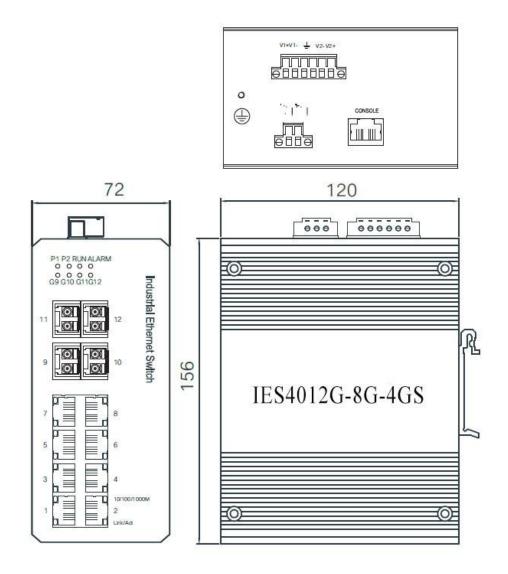
- Intelligent Transportation System
- Industrial Automation
- Security Surveillance
- New Energy and Utilities
- Data Center Network
- Electric Power Industry
- Oil&Gas
- Smart City

# > Specification

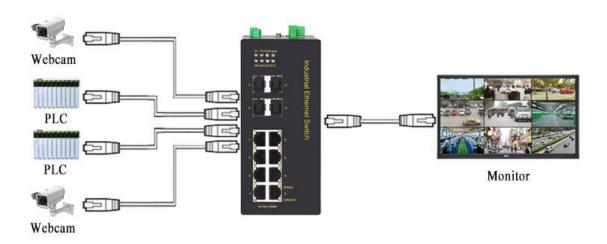
Product Name   12-port Full Gigabit Din-Rail Unmanaged layer2 Industrial Ethernet switch   Product Model   IES4012G-8G-4GS   Port Definition   8-port 10/100/1000M Base-T(X) + 4-port Gigabit SFP	•		
Product Model         IES4012G-8G-4GS           Port Definition         8-port 10/100/1000M Base-T(X) + 4-port Gigabit SFP           IEEE802.3(Ethernet), IEEE802.3(p100Base-TX&100Base-FX)           Protocol Standard         IEEE802.3x(1000Base-LX)IEEE802.3ab(1000Base-TX)           Terminal block for relay alarm         5.08mm terminal block, 1A@24VDC           Terminal block for power input         5.08mm terminal block           Switch capability           MAC Table Size         16K           Backplane bandwidth         24Gbps           Switch Delay         <5µB	Specification		
Port Definition 8-port 10/100/1000M Base-T(X) + 4-port Gigabit SFP    EEE802.3(Ethernet), IEEE802.3u(100Base-TX&100Base-TX)   IEEE802.3u(100Base-TX)  IEEE802.3u(100Base-TX)   IEEE802.3u(Flow control)   IEEE802.	Product Name	12-port Full Gigabit Din-Rail Unmanaged layer2 Industrial Ethernet switch	
IEEE802.3(Ethernet), IEEE802.3u(100Base-TX&100Base-FX)   IEEE802.3x(Flow control)   5.08mm terminal block   1.000Base-T)   IEEE802.3x(Flow control)   5.08mm terminal block   1.000Base-T)   IEEE802.3x(Flow control)   5.08mm terminal block   1.000Base-TX&100Base-TX&100Base-TX&10DBASE-TX&10	Product Model	IES4012G-8G-4GS	
Protocol Standard    IEEE802.3x(Flow control)   IEEE802.3x(Flow control)   IEEE802.3x(Flow control)   IEEE802.3x(Flow control)   Terminal block for relay alarm   5.08mm terminal block, 1A@24VDC	Port Definition	8-port 10/100/1000M Base-T(X) + 4-port Gigabit SFP	
IEEE802.3x(Flow control)   Terminal block for relay alarm   5.08mm terminal block, 1A@24VDC     Switch capability   5.08mm terminal block     Switch Capability   5.08mm terminal block     Switch Delay   24Gbps   24Gbps   25µs   25µ		IEEE802.3(Ethernet), IEEE802.3u(100Base-TX&100Base-FX)	
Terminal block for relay alarm  Terminal block for power input  Solemm terminal block  Switch capability  MAC Table Size  16K  Backplane bandwidth  24Gbps  Switch Delay  5µs  Communication distance  Twisted-pair  Multi-mode fiber  10/100Base multi-mode: 1310nm 2km  Single mode fiber  10/100Base single mode: 1310nm 2km; 1550nm 40/60/80/100/120km  LED indicator lights  Port light: LINK/ACT;SPEED;  Front panel LED lights  Port light: LINK/ACT;SPEED;  Front panel LED lights  Power  Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption  415W  Overload protection  support  Working Environment  Operating Temperature  -40°C~75°C  Storage temperature  -40°C~75°C  Storage temperature  -40°C~85°C  Ambient Humidity  5%~95% (non-condensing)  Physical Characteristics  Shell  IP40 protection, aluminum alloy shell  Installation  35mm din-rail Installation	Protocol Standard	IEEE802.3z(1000Base-LX)IEEE802.3ab(1000Base-T)	
Terminal block for power input         5.08mm terminal block           Switch capability           MAC Table Size         16K           Backplane bandwidth         24Gbps           Switch Delay         <5µs		IEEE802.3x(Flow control)	
Switch capability         MAC Table Size       16K         Backplane bandwidth       24Gbps         Switch Delay       <5µs	Terminal block for relay alarm	5.08mm terminal block, 1A@24VDC	
MAC Table Size 16K Backplane bandwidth 24Gbps  Switch Delay <5μs  Communication distance  Twisted-pair 100m(CAT5/CAT5e cable)  Multi-mode fiber 10/100Base multi-mode: 1310nm 2km  Single mode fiber 10/100Base single mode: 1310nm 20km; 1550nm 40/60/80/100/120km  LED indicator lights Port light: LINK/ACT;SPEED;  Front panel LED lights System work light: RUN Power LED: P1/P2  Power  Input power Dual power DC12-48V or Single power AC/DC220V  Full-load consumption <15W  Overload protection support  Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell Installation 35mm din-rail Installation	Terminal block for power input	5.08mm terminal block	
Backplane bandwidth       24Gbps         Switch Delay       <5μs	Switch capability		
Switch Delay       <5μs         Communication distance         Twisted-pair       100m(CAT5/CAT5e cable)         Multi-mode fiber       10/100Base multi-mode: 1310nm 2km         Single mode fiber       10/100Base single mode: 1310nm 20km; 1550nm 40/60/80/100/120km         LED indicator lights         Port light: LINK/ACT;SPEED;         System work light: RUN         Power         Input power         Dual power DC12-48V or Single power AC/DC220V         Full-load consumption       <15W	MAC Table Size	16K	
Communication distance  Twisted-pair 100m(CAT5/CAT5e cable)  Multi-mode fiber 10/100Base multi-mode: 1310nm 2km  Single mode fiber 10/100Base single mode: 1310nm 20km; 1550nm 40/60/80/100/120km  LED indicator lights Port light: LINK/ACT;SPEED;  Front panel LED lights System work light: RUN Power LED: P1/P2  Power  Input power Dual power DC12-48V or Single power AC/DC220V  Full-load consumption <15W  Overload protection support  Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell  Installation 35mm din-rail Installation	Backplane bandwidth	24Gbps	
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Single mode fiber 10/100Base single mode: 1310nm 20km; 1550nm 40/60/80/100/120km  LED indicator lights Port light: LINK/ACT;SPEED;  System work light: RUN Power LED: P1/P2  Power  Input power Dual power DC12-48V or Single power AC/DC220V  Full-load consumption <15W  Overload protection support  Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell  Installation 35mm din-rail Installation	Twisted-pair	100m(CAT5/CAT5e cable)	
LED indicator lights  Port light: LINK/ACT;SPEED;  Front panel LED lights  System work light: RUN  Power LED: P1/P2  Power  Input power  Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption  <15W  Overload protection  support  Inversed protection  Working Environment  Operating Temperature  -40°C~75°C  Storage temperature  -40°C~85°C  Ambient Humidity  5%~95% (non-condensing)  Physical Characteristics  Shell  IP40 protection, aluminum alloy shell  Installation  35mm din-rail Installation	Multi-mode fiber	10/100Base multi-mode: 1310nm 2km	
Port light: LINK/ACT;SPEED; System work light: RUN Power LED: P1/P2  Power  Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption <15W  Overload protection support  Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell  Installation 35mm din-rail Installation	Single mode fiber	10/100Base single mode: 1310nm 20km; 1550nm 40/60/80/100/120km	
Front panel LED lights  System work light: RUN  Power  Power  Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption  Voerload protection  support  Inversed protection  Working Environment  Operating Temperature  -40°C~75°C  Storage temperature  -40°C~85°C  Ambient Humidity  5%~95% (non-condensing)  Physical Characteristics  Shell  IP40 protection, aluminum alloy shell  Installation  System work light: RUN  Power LED: P1/P2  Input power AC/DC220V  **Input power AC/DC220V	LED indicator lights		
Power LED: P1/P2  Power  Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption  <15W  Overload protection  support  Inversed protection  Working Environment  Operating Temperature  -40°C~75°C  Storage temperature  -40°C~85°C  Ambient Humidity  5%~95% (non-condensing)  Physical Characteristics  Shell  IP40 protection, aluminum alloy shell  Installation  35mm din-rail Installation		Port light: LINK/ACT;SPEED;	
Input power  Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption  Voerload protection Inversed protection  Support  Working Environment  Operating Temperature  -40°C~75°C  Storage temperature  -40°C~85°C  Ambient Humidity  5%~95% (non-condensing)  Physical Characteristics  Shell  IP40 protection, aluminum alloy shell  Installation  35mm din-rail Installation	Front panel LED lights	System work light: RUN	
Input power  Dual power DC12-48V or Single power AC/DC220V  Full-load consumption  Overload protection Support  Inversed protection  Working Environment  Operating Temperature  -40°C~75°C  Storage temperature  -40°C~85°C  Ambient Humidity  5%~95% (non-condensing)  Physical Characteristics  Shell  IP40 protection, aluminum alloy shell  Installation  35mm din-rail Installation		Power LED: P1/P2	
Full-load consumption <15W  Overload protection support  Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell  Installation 35mm din-rail Installation	Power		
Overload protection support  Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell  Installation 35mm din-rail Installation	Input power	Dual power DC12-48V or Single power AC/DC220V	
Inversed protection support  Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell Installation 35mm din-rail Installation	Full-load consumption	<15W	
Working Environment  Operating Temperature -40°C~75°C  Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell Installation 35mm din-rail Installation	Overload protection	support	
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Storage temperature -40°C~85°C  Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell  Installation 35mm din-rail Installation	Working Environment		
Ambient Humidity 5%~95% (non-condensing)  Physical Characteristics  Shell IP40 protection, aluminum alloy shell Installation 35mm din-rail Installation	Operating Temperature	-40°C~75°C	
Physical Characteristics  Shell IP40 protection, aluminum alloy shell Installation 35mm din-rail Installation	Storage temperature	-40°C~85°C	
Shell IP40 protection, aluminum alloy shell Installation 35mm din-rail Installation	Ambient Humidity	5%~95% (non-condensing)	
Installation 35mm din-rail Installation	Physical Characteristics		
	Shell	IP40 protection, aluminum alloy shell	
Dimension 156mm*120mm*72mm	Installation	35mm din-rail Installation	
	Dimension	156mm*120mm*72mm	

Industry standard		
	EN61000-4-2(ESD), Level 4	
	EN61000-4-3(RS), Level 4	
EMC	EN61000-4-4(EFT), Level 4	
	EN61000-4-5(Surge), Level 4	
	EN61000-4-6(CS), Level 4	
	EN61000-4-8, Level 5	
Impact	IEC60068-2-27	
Falling	IEC60068-2-32	
Shock	IEC60068-2-6	
Warranty		
Warranty	5 Years	
Certification	CE, FCC, RoHS	

# **Dimension**



# **Connection**



# Ordering Information

Model NO.	Description
IES4012G-8G-4GS	8-port 10/100/1000M Base-T(X)+4-port Gigabit SFP, Dual DC12-48V
IES4012G-8G-4GS-AD220	8-port 10/100/1000M Base-T(X)+4-port Gigabit SFP, Single AC/DC220V

# Packing List

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