

24-port 10/100M Ethernet, Rack-mount, Layer2, Managed

Features

- Support 24-port 10/100M RJ45;
- 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 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 AC/DC 220V power supply;
- Support FC/ST/SC Fiber connector Optional;
- Power supply input support anti-reverse protection and non-polarity;
- Support over Voltage, over current, EMC protection;
- Support wide operating temperature range from -40-75°C;
- 1U, 19-inch Rack-mount Installation;
- Warranty:5years

> Introduction

UPCOM IES1024 is a rugged industrial grade, Rack-mount, layer2, Managed Ethernet switch which supports 24-port 10/100M Base-T(X). 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.

IES1024 adopts standard Industrial design, IP40 protection, aluminum alloy shell, support 1U, 19-inch Rackmount installation, fanless design, EMC level 4 protection, dual power AC/DC220V, can satisfied the requirement of various industrial applications such as Intelligent Transportation System, Security Surveillance, 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
- Data Center Network
- Electric Power Industry
- Smart City



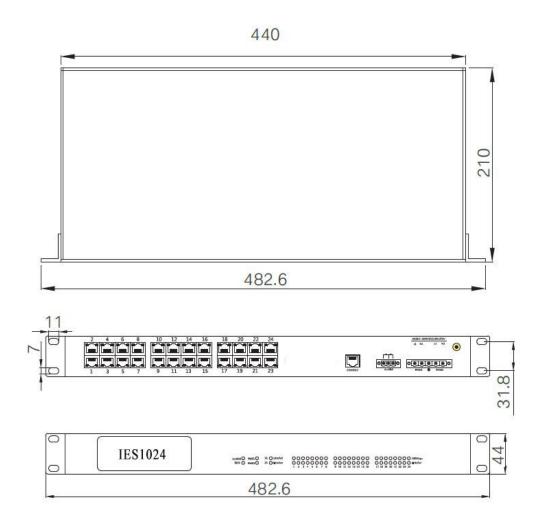
> Specification

Specification 24-port 10/100M Rack-mount Managed layer2 Industrial Ethernet switch Product Model IES1024 Port Definition 24-port 10/100M RJ45 + 1 Console port 100M fiber port SC/FC/ST Optional Console port RS232/RJ45 Terminal block for power input 7.62mm terminal block Terminal block for power input Terminal block for power input Seminal block for power input Terminal block for power input Seminal block for power for power of Redunding for power of Support Rate limit, Trunking, flow control, VLAN Support Rate limit, Trunking, flow control, VLAN Support Redunding power Support Supp		
Product Model IES1024 Port Definition 24-port 10/100M RI45 + 1 Console port 100M fiber port SC/FC/ST Optional Console port RS232/RI45 Terminal block for power input 7.62mm terminal block Terminal block for relay alarm 5.08mm terminal block, 1A@24VDC Software Function Switch Properties Support Rate limit, Trunking, flow control, VLAN Support IEEE 802.1Q VLAN and broadcast storm suppression Support STP/RSTP Support SIP/RSTP Support GMRP, support static multicast Security Support IEEE 802.1X,HTTP,RADIUS,user grading and MAC address binding Paddress management Support SP and WRR queuing Support OS Setting IP address management Support SP and WRR queuing Support Console and Web management Support SNMPv1/v2c Support Software updating Support tonsole and Web management Support Software updating Support power off, power alarm, port alarm Support power off, power alarm, port alarm Support og viewing Support accept and transfer frame statistics IEEE802.31-0BaseT IEEE802.31-10BaseT IEEE802.31-10BaseT/100Base-FX IEEE802.1D-Spanning Tree Protocol IEEE802.1L-Rapid Spanning Tree Protocol IEEE802.1L-Rapid Spanning Tree Protocol IEEE802.1L-Port Based Network Access Control	Specification	
Port Definition 24-port 10/100M RI45 + 1 Console port 100M fiber port 5C/FC/ST Optional 100M fiber port RS232/RI45 Terminal block for power input 7.62mm terminal block 7 Terminal block for relay alarm 5.08mm terminal block, 14@24VDC Software Function 5.08mm terminal block, 14@24VDC Software Function 5.09mm terminal block, 14@24VDC Support Rate limit, Trunking, flow control, VLAN 5.00mm terminal block, 14@24VDC Support REE 802.1Q VLAN and broadcast storm suppression 5.00mm terminal block 7.00mm terminal block, 14@24VDC Support STP/RSTP 5.00mm terminal block, 14@24VDC Support SU	Product Name	24-port 10/100M Rack-mount Managed layer2 Industrial Ethernet switch
100M fiber port SC/FC/ST Optional Console port RS232/RJ45 Terminal block for power input 7.62mm terminal block Terminal block for relay alarm 5.08mm terminal block,1A@24VDC Software Function Switch Properties Support Rate limit, Trunking, flow control, VLAN Support IEEE 802.1Q VLAN and broadcast storm suppression Support MW-Ring redundancy and the recovery time<20ms Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support GMRP, support static multicast Security Support SP and WRR queuing Service quality management Support OoS setting Paddress management Support OoS setting Support Console and Web management Support Software updating Support Software updating Support software updating Support to Pl/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support log viewing Support accept and transfer frame statistics IEEE802.3 u-1008aseT IEEE802.3 u-1008aseTX/1008ase-FX IEEE802.1 u-Rapid Spanning Tree Protocol IEEE802.1 u-Class of Service	Product Model	IES1024
Console port RS232/RJ45 Terminal block for power input 7.62mm terminal block 7.50mm ter	Port Definition	24-port 10/100M RJ45 + 1 Console port
Terminal block for power input Terminal block for relay alarm 5.08mm terminal block,1A@24VDC Software Function Support Rate limit, Trunking, flow control, VLAN Support IEEE 802.1Q VLAN and broadcast storm suppression Support MW-Ring redundancy and the recovery time<20ms Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support JEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Support QoS setting IP address management Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support software updating Support to PlyMAC address conflict alarm Support power off, power alarm, port alarm Support tog viewing Support tog viewing Support and transfer frame statistics Ethernet Standard Ethernet Standard Ethernet Standard Fig. 802.10-Spanning Tree Protocol IEEE802.10-Spanning Tree Protocol IEEE802.10-Class of Service IEEE802.12-VLAN Tagging IEEE802.13-Port Based Network Access Control	100M fiber port	SC/FC/ST Optional
Software Function Software Function Switch Properties Support Rate limit, Trunking, flow control, VLAN	Console port	RS232/RJ45
Software Function Switch Properties Support Rate limit, Trunking, flow control, VLAN Support IEEE 802.1Q VLAN and broadcast storm suppression Redundancy protocol Redundancy protocol Support MW-Ring redundancy and the recovery time<20ms Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support JEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Support SP and WRR queuing Support QoS setting IP address management Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3-10BaseT IEEE802.10-Spanning Tree Protocol IEEE802.10-Spanning Tree Protocol IEEE802.10-VLAN Tagging IEEE802.10-Class of Service IEEE802.10-Loss of Service IEEE802.12-VLAN Tagging IEEE802.12-Port Based Network Access Control	Terminal block for power input	7.62mm terminal block
Support Rate limit, Trunking, flow control, VLAN Support IEEE 802.1Q VLAN and broadcast storm suppression Redundancy protocol Support MW-Ring redundancy and the recovery time<20ms Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support SP and WRR queuing Support QOS setting IP address management Support Console and Web management Support SNMPv1/v2c Support software updating Support software updating Support power off, power alarm, port alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3u-100BaseTX/100Base-FX IEEE802.3u-100BaseTX/100Base-FX IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1u-Polass of Service IEEE802.1v-Port Based Network Access Control	Terminal block for relay alarm	5.08mm terminal block,1A@24VDC
Switch Properties Support IEEE 802.1Q VLAN and broadcast storm suppression Support MW-Ring redundancy and the recovery time<20ms Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support EEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Support QoS setting Support DHCP server Support Console and Web management Support Software updating Support software updating Support power off, power alarm, port alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3u-1008aseTX/1008ase-FX IEEE802.3u-1008aseTX/100Base-FX IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1u-Poltass of Service IEEE802.1v-Port Based Network Access Control	Software Function	
Support IEEE 802.1Q VLAN and broadcast storm suppression Redundancy protocol Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support IEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Service quality management Support QoS setting IP address management Support DHCP server Support SNMPv1/v2c Support SNMPv1/v2c Support software updating Support be IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support log viewing Support and transfer frame statistics IEEE802.3u-10BaseT IEEE802.3u-10BaseT IEEE802.3u-Flow Control IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1p-Class of Service IEEE802.1y-VLAN Tagging IEEE802.1y-Port Based Network Access Control		Support Rate limit, Trunking, flow control, VLAN
Redundancy protocol Support STP/RSTP Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support SP and WRR queuing Support QoS setting IP address management Support DHCP server Support Software updating Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support log viewing Support log viewing Support accept and transfer frame statistics Ethernet Standard Ethernet Standard Support Samanagement Support power off, power alarm, port alarm	Switch Properties	Support IEEE 802.1Q VLAN and broadcast storm suppression
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Multicast Support IGMP v1 / v2, IGMP Snooping Support GMRP, support static multicast Security Support IEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Support QoS setting Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3-10BaseT IEEE802.3-10BaseTA/100Base-FX IEEE802.1D-Spanning Tree Protocol IEEE802.1U-Spanning Tree Protocol IEEE802.1U-Class of Service IEEE802.1.X-Port Based Network Access Control		Support STP/RSTP
Support GMRP, support static multicast Security Support IEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Supports SP and WRR queuing Support QoS setting IP address management Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-10DBaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1U-Spanning Tree Protocol IEEE802.1U-VLAN Tagging IEEE802.1U-Class of Service IEEE802.1.Y-Port Based Network Access Control		Support IGMP v1 / v2, IGMP Snooping
Security Support IEEE 802.1x,HTTP,RADIUS,user grading and MAC address binding Support SP and WRR queuing Support QoS setting IP address management Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3-10BaseT IEEE802.3-Flow Control IEEE802.1-Spanning Tree Protocol IEEE802.1-VLAN Tagging IEEE802.1-Class of Service IEEE802.1-Y-Port Based Network Access Control	Multicast	
Service quality management Support SP and WRR queuing Support QoS setting IP address management Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support port mirroring Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3v-IboaseTX/100Base-FX IEEE802.3v-IboaseTX/100Base-FX IEEE802.1p-Spanning Tree Protocol IEEE802.1Q-VLAN Tagging IEEE802.1p-Class of Service IEEE802.1X-Port Based Network Access Control	Security	
Service quality management Support QoS setting Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3u-100BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.1u-Spanning Tree Protocol IEEE802.1u-Rapid Spanning Tree Protocol IEEE802.1Q-VLAN Tagging IEEE802.1y-Oclass of Service IEEE802.1Y-Port Based Network Access Control		
IP address management Support DHCP server Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3u-100BaseTX/100Base-FX IEEE802.1b-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		
Support Console and Web management Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support log viewing Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3u-100BaseTX/100Base-FX IEEE802.1D-Spanning Tree Protocol IEEE802.1D-Spanning Tree Protocol IEEE802.1Q-VLAN Tagging IEEE802.1Q -VLAN Tagging IEEE802.1Y-Port Based Network Access Control	IP address management	
Support SNMPv1/v2c Support software updating Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support port mirroring Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1D-Spanning Tree Protocol IEEE802.1W-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		
Management and maintenance Support the IP/MAC address conflict alarm Support power off, power alarm, port alarm Support port mirroring Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		
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Management and maintenance Support power off, power alarm, port alarm Support port mirroring Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control	Management and maintenance	
Support port mirroring Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		
Support log viewing Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		
Support accept and transfer frame statistics IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		
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Ethernet Standard Ethernet Standard Ethernet Standard Ethernet Standard Ethernet Standard Ethernet Standard EEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control	Ethernet Standard	
Ethernet Standard IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		IEEE802.3u-100BaseTX/100Base-FX
IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		IEEE802.3x-Flow Control
IEEE802.1w-Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		IEEE802.1D-Spanning Tree Protocol
IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control		IEEE802.1w-Rapid Spanning Tree Protocol
IEEE802.1X-Port Based Network Access Control		IEEE802.1Q -VLAN Tagging
		IEEE802.1p -Class of Service
Switch capability		IEEE802.1X-Port Based Network Access Control
	Switch capability	

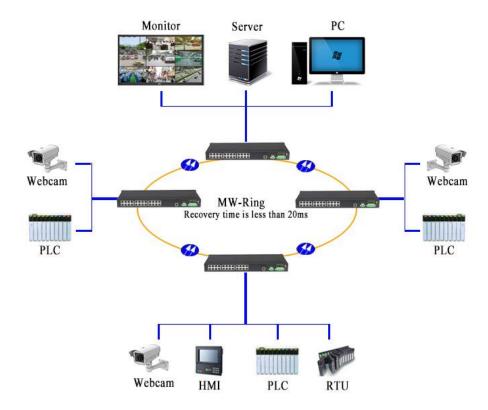
Priority Queues	4	
VLAN Number	4096	
IGMP Groups	256	
MAC Table Size	8K	
Backplane bandwidth	8.8Gbps	
Switch Delay	<5μs	
Communication distance		
Twisted-pair	100m(CAT5/CAT5e cable)	
Multi-mode fiber	10/100Base multi-mode: 850nm 2km	
Single mode fiber	10/100Base single mode: 1310nm 20km; 1550nm 40/60/80/100/120km	
LED indicator lights		
	Port light: LINK/ACT;SPEED;	
	Running light: RUN	
Front panel LED lights	Power LED: PWR1/PWR2	
	Alarm light: ALARM	
	RJ45 Port light: LINK/ACT; SPEED	
Back panel LED lights	Fiber light: LINK/ACT	
Power		
Input power	Dual power AC/DC220V	
Full-load consumption	<25W	
Overload protection	support	
Inversed protection	support	
Redundancy 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	Standard 1U,19-inch rack mounting	
Dimension	482.6mm*44mm*210mm	
Industry standard		
ЕМС	EN61000-4-2(ESD), Level 4 EN61000-4-3(RS), Level 4 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		
Warranty Warranty	5 Years	

Dimension



Connection



Ordering Information

Model NO.	Description
IES1024	24-port 10/100M Base-T(X), Rack-mount Managed, Dual AC/DC220V
IES1024-4F	20-port 10/100M Base-T(X) + 4-port 100M FX, Rack-mount Managed, Dual AC/DC220V
IES1024-8F	16-port 10/100M Base-T(X) + 8-port 100M FX, Rack-mount Managed, Dual AC/DC220V
IES1024-12F	12-port 10/100M Base-T(X) + 12-port 100M FX, Rack-mount Managed, Dual AC/DC220V
IES1024-16F	8-port 10/100M Base-T(X) + 16-port 100M FX, Rack-mount Managed, Dual AC/DC220V
IES1024-24F	24-port 100M FX, Rack-mount Managed, Dual AC/DC220V

Packing List

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