Industrial Ethernet Switches R2-24TXP-4S-G

28-port Gigabit Managed Industrial PoE Switch



OVERVIEW

The Case Communications R2-24TXP-4S-G series is L2+ full Gigabit managed industrial PoE fibre switch.

It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X uplink SFP fibre slot ports. Ports 1-24 support the IEEE 802.3af/at PoE standards, with PoE+ powering up to 30W with the maximum PoE output power of the switch at 600W.

As a PoE power switch, it can automatically detect and recognise the PoE, equipment and supply it with power through the network cable. It can supply power to POE terminal equipment such as wireless AP, web camera, VoIP phones, industrial sensors, intelligent building intercoms via their network cables The R2-24TXP-4S-G is suitable for hotels, campuses, parks, shopping malls, scenic spots, hospitals, banks, and small and medium-sized enterprises.

The R2-24TXP-4S-G uses L2+ network management, and supports IPV4/IPV6 management, static routes, full line-rate forwarding, a security protection mechanism, ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain.

The R2-24TXP-4S-G supports multiple network redundancy protocols such as STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve network reliability.

If a network path suffers failure, communication can be quickly restored to ensure uninterrupted communication.

Depending on the application, its possible to configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network Management GUI.



FEATURES

Gigabit access, Gigabit SFP uplink

- A combination of Gigabit Ethernet port and Gigabit SFP ports for maximum flexibility.
- Support non-blocking wire speed forwarding
- Support full duplex based on IEEE802.3x and half duplex based on backpressure

Intelligent PoE power supply

- 24*10/100/1000Base-T RJ45 ports can support POE / POE+ to meet the needs of security and CCTV monitoring, teleconferencing system, wireless coverage, and other applications.
- IEEE 802.3af/at PoE standard, to ensure the switch does not damage non PoE devices.
- Priority system for PoE port, it will supply power to the high priority level port first
 if the power budget is insufficient and avoid overloading the switch.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and Q-in-Q configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, provides flexible and safe access control.
- IGMP V1/V2 and IGMP Snooping.
- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.

Security

- 802.1X authentication.
- Port Isolation Storm control.
- IP-MAC-VLAN-Port binding.

Stable and reliable

- Low power consumption, fan active cooling, galvanized steel casing.
- High redundancy power-supply design, providing a long term and stable PoE power output.
- CCC,CE, FCC, RoHS.
- User-friendly panel, shows the device status through the LED indicator of PWR, Link .PoE

Easy operation and maintenance management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.



TECHNICAL SPECIFICATION

	R2-24TXP-4S-G		
Interface	24*10/100/1000Base-T POE ports (Data /Power); 4*100/1000Base-X		
Interruce	uplink SFP ports (2*combo ports. (Data) 1*RS232 Console port (115200, N,8,1)		
POE Ports	Port 1 - 24		
	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX		
Network Protocols	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
PoE Standard	IEEE802.3af/at		
Ethernet Port	10/100/1000Base-T, Auto-Sensing, Full/half duplex MDI/MDI-X self-adaption		
Fibre Port Feature	Gigabit SFP optical fibre interface, default matching optical modules (optional order single-mode / multi-mode, single fibre / dual fibre optical module. LC)		
Forwarding Mode	Store and Forward (Full wire speed)		
Switching Capacity	256Gbps (Non-blocking)		
Forwarding Rate@64byte	38.69Mpps		
MAC / Buffer Memory	MAC Addresses 8K	Buffer Memory 8M	
Jumbo Frame	9.6K		
	10BASE-T: Cat3,4,5 UTP(≤100 meter); 100BASE-TX: Cat5 or later UTP(≤100 meter); 1000BASE-X: Cat5e		
Twisted Pair			
Transmission	or later UTP(≤100 meter)		
Optical Fibre Cable	Multi Mode: 850nm 0-550M;Single Mode: 1310nm 0-40KM,1550nm		
	0-120KM.		
Power Supply Pin	Default: 1/2(+), 3/6(-);		
MAX / Average Pwr per Port	30W/30W		
Power Consumption	Standby: <22W; Full Load: <600W		
Power Supply	Built-in power supply. AC: AC100~240		
	Dual input power interface, AC power st		
Power Input Interface	Support for anti-reverse protection, power DC connection; alarm switch;	er-on automatic switching	
	2 sets of DC12-48V input interface;		
	1 set of AC power input		
LED L. P. A.	Power: PWR (yellow); system: SYS (yellow); Network: 100M Link (yellow),		
LED Indicator	1000M Speed (green); SFP Fibre Port:	L/A (green);	
Reset Button	POE: PoE (green); Support one button to restore to factory default settings		
Heat Dissipation	Low noise; fan active cooling	<u> </u>	
Operation TEMP / Humidity	-40~+75°C; 5%~90% RH Non-condensing (Storage -40C ~ +75°C)		
Dimension	440x 298 x44.5mm		
Net /Gross Weight	<4.6kg / <5.3kg		
Installation	Desktop ,19 inch 1U cabinet		
	<u> </u>		





I Lightning protection, 6VV 9/20ve.		
 Lightning protection: 6KV 8/20us; Protection level: IP30 		
■ 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		
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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 A		
■ IEC61000-6-2 (Common Industrial Standard)		
■ IEC60068-2-6 (anti vibration)		
■ IEC60068-2-27 (anti shock)		
■ IEC60068-2-32 (free fall)		
■ CE mark, commercial; CE/LVD		
■ EN60950;		
■ FCC Part 15 Class B;		
• RoHS;		
IEEE802.3X (Full-Duplex)		
Broadcast storm control based on port speed		
Bandwidth reduction in the ingress port access port. The minimum		
packet size is 64Kbps.		
Port temperature protection setting		
Port green Ethernet Energy-saving setting		
Total power limit of PoE power supply		
PoE output power allocation, off& af		
&at PoE output priority configuration		
PoE working status		
Delay start of power supply Scheduling of		
PoE operation and time		
4K VLAN based on port, IEEE802.1q VLAN based		
on the protocol, VLAN based on MAC		
Voice VLAN, Q-in-Q configuration		
Port configuration of Access, Trunk, Hybrid		
LACP, Static aggregation		
Max 13 aggregation groups and 8 ports per group.		
STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)		
G.8032 (ERPS),Recovery time less than 50ms,		

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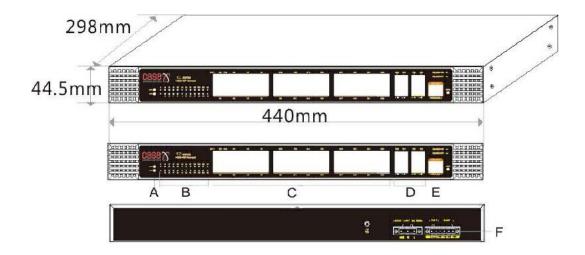
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Multicast	IGMP Snooping v1/v2/v3, Max 1024 multicast groups, Fast log out MLD Snooping v1/v2,Multicast VLAN		
Port Mirroring	Bidirectional data mirroring based on port		
	Diff-Serv QoS, Priority Mark/Remark 8*Output queues of each		
	port 802.1p/DSCP priority mapping		
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
	Flow-based Packet Filtering, Flow-based		
QoS	Redirection, Flow-based Rate Limiting		
	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL		
	based on MAC, Destination MAC address, IP Source, Destination IP, IP		
ACL	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.		
	Port-based Issuing ACL.		
	ACL based on port and VLAN		
	User hierarchical management and password protection SSH 2.0,SSL,		
	Port isolation,		
	ARP message speed limit Broadcast storm control,		
	Backup for host datum IEEE802.1X		
Security	MAC address authentication, Mac black holes,		
	IP source protection AAA & RADIUS,		
	MAC learning limit ARP inspection, Anti-DoS attack		
	IP-MAC-VLAN-Port binding		
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay		
	Console/AUX Modem/Telnet/SSH2.0		
	CLI Web Management (HTTPS)		
	Download & Management on FTP,		
	TFTP, -Modem, SFTP, SNMP V1/V2C/V3		
Management	One-key recovery		
	NTP,System work System		
	Log,Ping Test Cable		
	Diagnose, LLDP		
	CPU instant utilization status view		
	LLDP+SNMP)		
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42		
	or higher, Microsoft Internet Explorer10 or later;		
	Category 5 Ethernet network cable		
	TCP/IP, network adapter, and network operating system (such as Microsoft		
	Windows, Linux, or Mac OS X) installed on each computer in a network		



DIMENSIONS



A. Power Indicator

B. PoE Operational Indicator

C. 24 x PoE Ports

D.Status of 4 x Gigabit SFP Ports

E. Console Port

 $F. \ AC \, / \, DC \, Dual \, Input \, Port$

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	26-port Gigabit managed industrial PoE fibre switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Rackmount ears	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

ORDERING INFORMATION

Model	Description
	L2+ managed industrial PoE fibre switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fibre slot ports. Port 1-24 can support IEEE 802.3af/at PoE standard, Built-in 600W power supply.

