

RES-9242GC

Industrial 26-Port Rack-Mount Managed Ethernet Switch with 24 x 10/100Base-T(X) and 2 x Gigabit Combo (RJ45/SFP)



Features

- Supports O-Ring, O-Chain, IEC 62439-2 MRP, ERPS, and RSTP/MSTP redundancy technologies
- The recovery time is less than 10 ms over 250 units of O-Ring
- Web-based, Telnet, Console (CLI), and Windows utility (Open-Vision) configuration
- Support Modbus TCP protocol
- 19 inches rack mountable design



UL 61010-1
Safety Certified

EN 62368-1
Safety Certified

Product Description

RES-9242GC is a rack-mount managed Ethernet switch designed for redundant ring networks. It features 24 x 10/100Base-T(X) ports and 2 x Gigabit combo ports (RJ45/SFP socket).

To protect mission-critical applications from network interruptions and downtime, the **RES-9242GC** supports advanced Ethernet redundancy protocols—including O-Ring (recovery time < 10 ms over 250 units), Open-Ring, O-Chain, MRP, Fast Recovery, and MSTP (RSTP/STP compatible).

Built for harsh environments, the switch supports a wide operating temperature range from -40°C to 75°C. In addition to Web-based interfaces, Telnet, and CLI console configuration, the **RES-9242GC** can be centrally managed via Open-Vision. With its fast recovery technology and robust design, it is an ideal and reliable solution for high-density, fiber-optic managed networks.

Specifications

Specifications	
Model Name	RES-9242GC
Ethernet Interface	
10/100Base-T(X) with RJ45 Auto MDI/MDIX	24
10/100/1000Base-T(X) RJ45 and 100/1000Base-X SFP with combo port	2
Standard	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)

Switch Properties	
Processing	Store-and-Forward
Switching Bandwidth	8.8Gbps
MAC Table	8K
Packet Buffer	2Mbits
Priority Queues	8
Jumbo Frame Size	Up to 10K Bytes
Switching Latency	7 us
Max. No. of VLANs	4095
VLAN ID Range	VID 1 to 4094
Max. IGMP Groups	256 for each VLAN
Ethernet Technologies	
Industrial Protocol	Modbus TCP/ Ethernet IP
Management	IPv4/ IPv6 HTTPS/ SSH/Telnet DBU01 Option Configuration TFTP DHCP Client/Server/Relay SNMPv1,v2c,v3/RMON Private MIB DHCP Client/Server/Relay/Option 82/Snooping Open-Vision
System Alarm	Relay output for fault event alarming Syslog server/client SMTP
Port Configuration	Port configuration, status, statistics, monitoring, security Port Flow Control (802.3x) Back Pressure Flow Control Loop Protection SFP Monitoring (DDM) Cable Diagnostic
DHCP	DHCP Client DHCP server DHCP relay DHCP option82 DHCP snooping DHCP Port and IP Binding
Redundancy Protocol	O-Ring O-Chain MRP MSTP (RSTP/STP compatible) ERPS (Ethernet Ring Protection Switching)
Security	Device Binding security feature DOS/DDOS auto prevention Access Management IP Source Guard ACL AAA-TACACS+ AAA-RADIUS client Port-based network access control (802.1X) MAC-based authentication Port Security Limit Control (Enable/Disable Ports)
Time Management	NTP Client/Server

	IEEE 1588v2 clock synchronization		
SNMP	SNMP v1/ v2c/ v3, SNMP trap		
VLAN	Port based VLAN 802.1Q Tag VLAN Q-in-Q VLAN GARP GVRP Guest VLAN Private VLAN		
Multicast	IGMP Snooping v2/v3 Static Multicast Unknown Multicast Enable/Blocking		
QoS	802.1p CoS TOS/Diffserv Application-based QoS Port Storm Control		
Other Interfaces			
Console Port	RS-232 connector with DB-9 console cable. 115200bps, 8, N, 1		
Reset Button	< 5 sec: System reboot, > 5 sec: Factory default		
LED Display			
System LED	PWR-1, PWR-2		Green
	Fault		Amber
O-Ring LED	Ring Status, R.M (Ring Master)		
10/100Base-T(X) RJ45 Port Indicator	LNK/ACT		Green
	Speed	10Mbps	Off
		100Mbps	Green
10/100/1000Base-T(X) RJ45 Port With Combo Port Indicator	LNK/ACT		Green
	Speed	10Mbps	Off
		100Mbps	Green
100/1000Base-X SFP Port With Combo Port Indicator	LNK/ACT		Green
Power			
Power Inputs	Dual redundant 100 ~ 240VAC with power cord		
Power consumption (Typ.)	15.2 watts		
Overload current protection	Present		
Physical Characteristic			
Installation	Rackmount		
Dimension	440 x 200 x 44 mm (17.32 x 7.87 x 1.73 inch)		
Weight	2,695 g		
Regulatory Approvals			
EMC	CE EMC (EN 55032, EN 55035), FCC Part 15B		
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15B class A		
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11		
Shock	IEC 60068-2-27		
Free Fall	IEC 60068-2-31		
Vibration	IEC 60068-2-6		
Safety	EN62368-1 , UL 61010-1		
Environmental Limits			

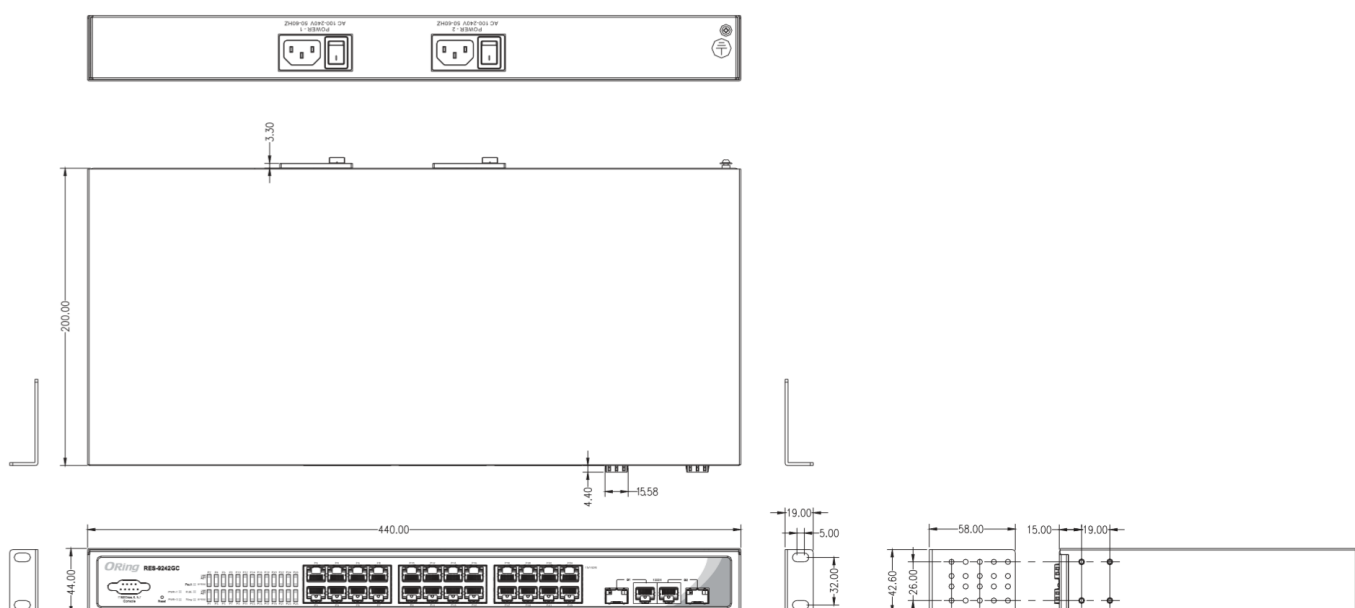
Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5% to 95% Non-condensing
MTBF and Warranty	
MTBF Time	385,493 hours
Warranty	5 years

Packing List

Device	1 x RES-9242GC
Others	1 x Quick Installation Guide 1 x Rackmount Kit 1 x Console Cable 2 x Power cords

Dimensions

Unit: mm [inch]



Ordering Information

RES-9242GC_US	Industrial 26-Port Rack-Mount Managed Ethernet Switch with 24 x 10/100Base-T(X) and 2 x Gigabit Combo (RJ45/SFP), US power cord
RES-9242GC_UK	Industrial 26-Port Rack-Mount Managed Ethernet Switch with 24 x 10/100Base-T(X) and 2 x Gigabit Combo (RJ45/SFP), UK power cord
RES-9242GC_EU	Industrial 26-Port Rack-Mount Managed Ethernet Switch with 24 x 10/100Base-T(X) and 2 x Gigabit Combo (RJ45/SFP), EU power cord
RES-9242GC_JP	Industrial 26-Port Rack-Mount Managed Ethernet Switch with 24 x 10/100Base-T(X) and 2 x Gigabit Combo (RJ45/SFP), JP power cord