

Rack-Mount Ethernet Switch

► Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xgigabit combo, SFP socket

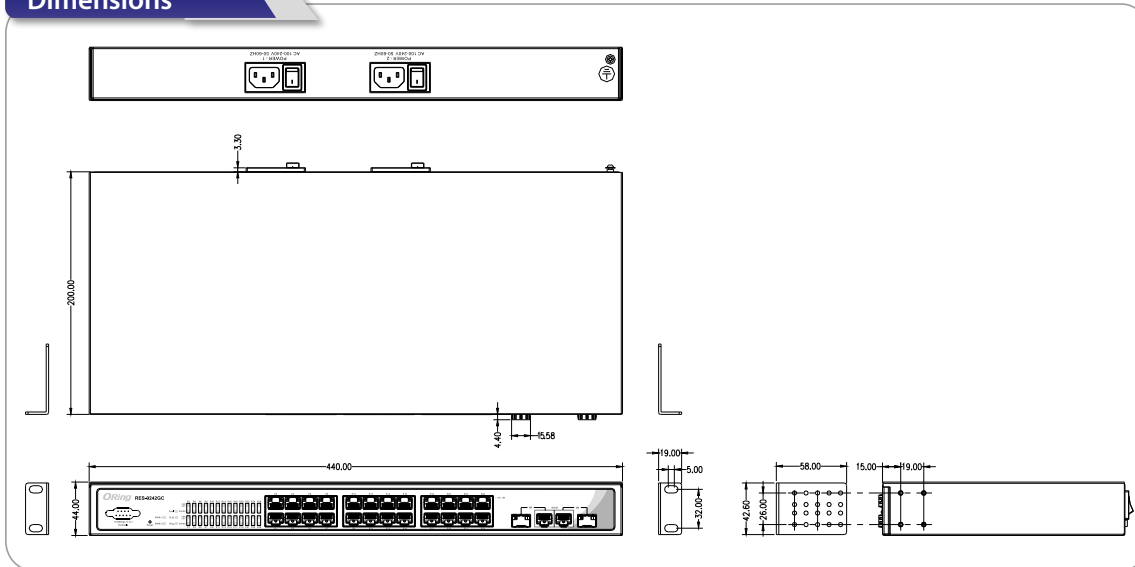
Features

- Support **O-Ring** (recovery time < 10ms over 250 units of connection) and MSTP(RSTP/STP compatible) for Ethernet Redundancy
- **Open-Ring** support the other vendor's ring technology in open architecture
- **O-Chain** allow multiple redundant network rings
- Support standard IEC 62439-2 **MRP*NOTE** (Media Redundancy Protocol) function
- Support IPV6 new internet protocol version
- Support Modbus TCP protocol
- Support IEEE 802.3az **Energy-Efficient Ethernet** technology
- Provided HTTPS/SSH protocol to enhance network security
- Support SMTP client and NTP server protocol
- Support IP-based bandwidth management
- Support application-based QoS management
- Support Device Binding security function
- Support DOS/DDOS auto prevention
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Support SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- Support ACL, TACACS+ and 802.1x User Authentication for security
- SFP socket support DDM function
- Multiple notification for warning of unexpected event
- Support **DBU-01** backup unit device to quickly backup/restore configuration
- Web-based, Telnet, Console (CLI), and Windows utility (**Open-Vision**) configuration
- Support LLDP Protocol
- 19 inches rack mountable design



Rack-Mount Ethernet Switch

Dimensions



(Unit=mm)

Specifications

ORing Switch Model	RES-9242GC
Physical Ports	
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
Technology	
Ethernet Standards	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)
MAC Table	8k
Priority Queues	8
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 8.8Gbps Max. Number of Available VLANs: 4095 VLAN ID Range : VID 1 to 4094 IGMP multicast groups: 256 for each VLAN Port rate limiting: User Define
Security Features	Device Binding security feature Enable/disable ports, MAC based port security Port based network access control (802.1x) Single 802.1x and Multiple 802.1x MAC-based authentication QoS assignment MAC address limit TACACS+ VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security Https / SSH enhance network security Web and CLI authentication and authorization

Rack-Mount Ethernet Switch

Software Features	IEEE 802.1D Bridge, auto MAC address learning/aging and MAC address (static) Multiple Registration Protocol (MRP) MSTP (RSTP/STP compatible) Redundant Ring (O-Ring) with recovery time less than 10ms over 250 units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging IGMP v2/v3 Snooping IP-based bandwidth management Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security DHCP Server/Client DHCP Relay Modbus TCP SMTP Client NTP server			
Network Redundancy	O-Ring Open-Ring O-Chain MRP* NOTE MSTP (RSTP/STP compatible) Fast Recovery			
RS-232 Serial Console Port	RS-232 in DB-9 connector with console cable. 115200bps, 8, N, 1			
LED Indicators				
Power Indicator	Green : Power indicator x 2			
Ring Master Indicator (R.M.)	Green : Indicates that the system is operating in O-Ring Master mode			
O-Ring Indicator (Ring)	Green : Indicates that the system operating in O-Ring mode Green Blinking : Indicates that the Ring is broken.			
Fault Indicator (Fault)	Amber : Indicate unexpected event occurred			
10/100Base-T(X) RJ45 Port Indicator	Green for Link/Act indicator. Green for speed indicator ~ On for 100Mbps / Off for 10Mbps			
10/100/1000Base-T(X) RJ45 Port With Combo Port Indicator	Green for Link/Act indicator. Green for speed indicator ~ On for 100/1000Mbps / Off for 10Mbps			
100/1000Base-X SFP Port With Combo Port Indicator	Green for port Link/Act.			
Power				
Power Inputs	Dual redundant 100 ~ 240VAC with power cord			
Power consumption (Typ.)	15.2 watts			
Overload current protection	Present			
Physical Characteristic				
Enclosure	19 inches rack mountable			
Dimension (W x D x H)	440 x 200 x 44 mm (17.32 x 7.87 x 1.73 inch)			
Weight (g)	2695 g			
Environmental				
Storage Temperature	-40 to 85°C (-40 to 185°F)			
Operating Temperature	-40 to 75°C (-40 to 167°F)			
Operating Humidity	5% to 95% Non-condensing			
Regulatory approvals				
EMI	FCC Part 15, CISPR (EN55022) class B			
EMS	EN61000-4-2 (ESD), EN61000-4-6 (CS),	EN61000-4-3 (RS), EN61000-4-8,	EN61000-4-4 (EFT), EN61000-4-11	EN61000-4-5 (Surge),
Shock	IEC60068-2-27			
Free Fall	IEC60068-2-32			
Vibration	IEC60068-2-6			
Safety	EN60950-1 (compliant, certification pending)			
MTBF	385,493 hours			
Warranty	5 years			

*NOTE: This function is available by request only

Rack-Mount Ethernet Switch

Ordering Information

RES-9 **AA** **B** **CC**

Code Definition	10/100Base-T(X) Port Number	Additional Port Number	Additional Port Type
Option	- 24 : 24 ports	- 2 : 2 ports	- GC : Gigabit combo, SFP socket

	Model Name	Description
Available Model	RES-9242GC_US	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xgigabit combo, SFP socket, US power cord
	RES-9242GC_UK	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xgigabit combo, SFP socket, UK power cord
	RES-9242GC_EU	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xgigabit combo, SFP socket, EU power cord
	RES-9242GC_JP	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xgigabit combo, SFP socket, JP power cord
Packing List	Optional Accessories (Can be purchased separately)	
<ul style="list-style-type: none"> RES-9242GC x 1 Rack-mount Kit x 1 ORing Tool CD x 1 Power Cable x 2 Quick Installation Guide x 1 Console Cable x 1 	<ul style="list-style-type: none"> Open-Vision M500 : Powerful Network Management Windows Utility Suit, 500 IP devices DBU-01 : backup unit device SFP100 series : 100Mbps SFP optical transceiver SFP1G series : 1Gbps SFP optical transceiver 	