

RES-3242GC / RES-3242GC-E

Industrial 26-port rack mount managed Ethernet switch series



Features

- World's fastest Redundant Ethernet Ring: O-Ring (recovery time < 10ms over 250 units of connection)</p>
- Open-Ring support the other vendor's ring technology in open architecture
- O-RSTP support applications with complex topology
- MSTP/RSTP/STP(IEEE 802.1s/w/D)
- Secured ACL supported
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- Support LLDP (Link Layer Discovery Protocol)
- Port lock to prevent access from unauthorized MAC address
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- Bundled Windows utility (Open-Vision) support centralization management and configurable by Web-based ,Telnet, Console, CLI
- Include 100~240 VAC and Dual +12~+48 VDC or -12~-48 VDC power inputs for "-E" model
- > 19 inches rack mountable













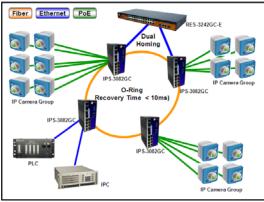


RES-3242GC series are 26-port rack mount managed Redundant Ring Ethernet switch with 24x10/100Base-T(X) and 2xGigabit Combo ports, SFP socket. With completely support of Ethernet Redundancy protocol, O-Ring (recovery time < 10ms over 250 units of connection), Open-Ring, O-RSTP and MSTP/RSTP/STP (IEEE 802.1s/w/D) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. RES-3242GC series can be managed centralized and convenient by a powerful windows utility — Open-Vision. RES-3242GC series also supports functions of network management, such as SNMP, RMON, Port Trunking, and Port/Tag-based VLAN security. RES-3242GC-E model support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 °C to 70 °C. One additional relay output is provided for system alarm warning, Therefore, RES-3242GC series is one of the most reliable choice for highly-managed and Fiber Ethernet application.



Open-Vision

ORing's switches are intelligent switches. Being different form other traditional redundant switches, ORing provides a set of Windows utility (Open-Vision) for user to manage and monitor all of industrial Ethernet switches on the industrial network.

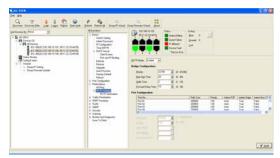


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Network connection

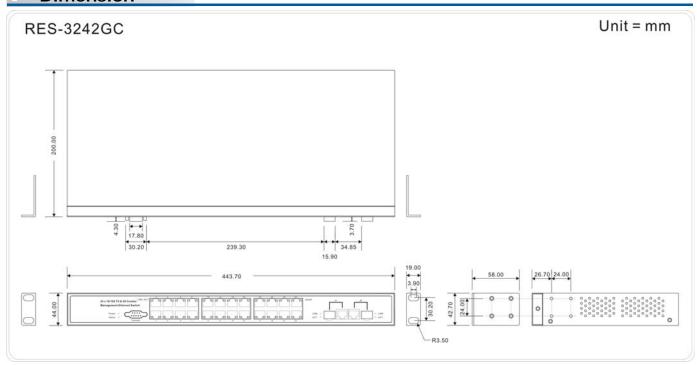
Topology View

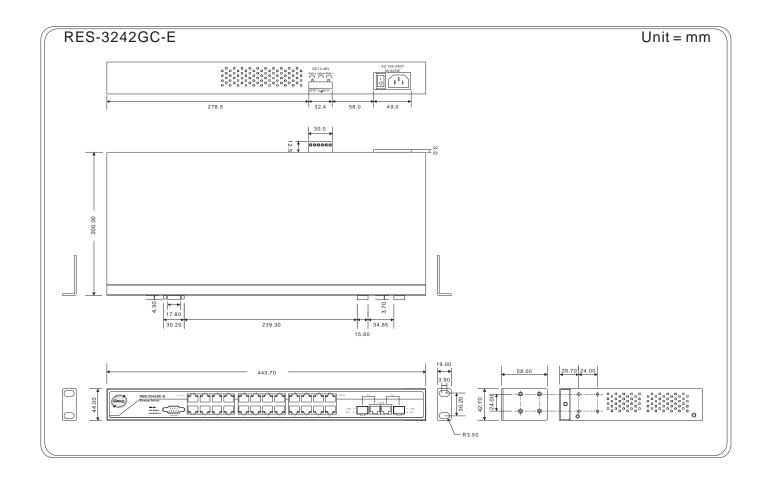




Monitoring and Configuration interface

Dimension



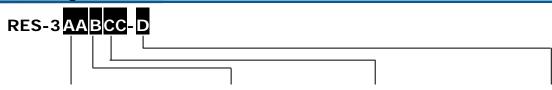


Specifications

ORing Switch Model	RES-3242GC	RES-3242GC-E		
Physical Ports				
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	24			
Gigabit combo port with 10/100/1000Base-T(X) and 1000Base-X SFP	2			
RS-232 Serial Console Port	RS-232 console cable. 9600bps, 8, N, 1			
Technology				
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-T(X), IEEE 802.3ab for 1000Base-T(X) IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree 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	8192 MAC addresses			
Priority Queues	4			
Processing	Store-and-Forward			
Switch Properties	Switching bandwidth: 8.8Gbps Max. Number of Available VLANs: 4096			

	IGMP multicast groups: 1024			
	Port rate limiting: User Define			
	Enable/disable ports, MAC based port security			
	ACL supported			
Security Features	Port based network access control (802.1x)	raffic		
	VLAN (802.1q) to segregate and secure network tr Radius centralized password management	ашс		
	SNMP v1/v2c/v3 encrypted authentication and acce	ess security		
	STP/RSTP/MSTP (IEEE 802.1D/w/s)	55 555a.r.y		
	Redundant Ring (O-Ring) with recovery time less th	nan 10ms over 250 units		
	TOS/Diffserv supported			
	Quality of Service (802.1p) for real-time traffic			
	VLAN (802.1Q) with VLAN tagging and GVRP supported			
Software Features	IGMP Snooping for multicast filtering			
	Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network			
	SNTP for synchronizing of clocks over network Support PTP Client (Precision Time Protocol) clock synchronization			
	Support PTP Client (Precision Time Protocol) clock synchronization DHCP Server / Client support			
	Port Trunk support			
	MVR (Multicast VLAN Registration) support			
	O-Ring			
	Open-Ring			
Network Redundancy	O-RSTP			
	STP RSTP			
	MSTP			
	Relay output for fault event alarming (only for RES-3242GC-E)			
Morning (Maritania C	Syslog server / client to record and view events			
Warning / Monitoring System	Include SMTP for event warning notification via email			
	Event selection support			
LED indicators				
Power indicator	Green for power on	Green : Power LED x 4		
Status indicator	Green on for system ready	Green on for system ready		
544.11.7		Green: Indicate system operated in O-Ring Master		
R.M. indicator	-	mode		
O-Ring indicator	-	Green : Indicate system operated in O-Ring mode		
Fault indicator	-	Amber : Indicate unexpected event occurred		
	Green at left for port Link/Act. Amber at right for	Green at left for port Link/Act. Amber at right for		
10/100Base-T(X) RJ45 port indicator	100Mbps link	100Mbps link		
1000Base-T(X) / Fiber port indicator	Green for port Link/Act	Green for port Link/Act		
Fault contact				
Relay	-	Relay output to carry capacity of 1A at 24VDC		
,				
Power				
Redundant Input power	100~240VAC with power cord	100~240VAC with power cord and dual +12~+48 VDC		
	10000	or -12~-48 VDC inputs in 6-pin terminal block		
Power consumption (Typ.)	18 Watts			
Overload current protection	Present			
Physical Characteristic				
Dimension (W x D x H)	443.7 (W) x 200 (D) x 44 (H) mm (17.47 x 7.88 x	1.73 inch)		
		T		
Weight (g)	2490 g	2590 g		
Environmental				
Operating Temperature	-10 to 60°C (14 to 140°F)	-40 to 70°C (-40 to 158°F)		
Operating Humidity	5% to 95% Non-condensing			
Regulatory approvals				
EMI	FCC Part 15, CISPR (EN55022) 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			
Warranty	2 years			

Ordering Information



Code Definition	10/100Base-T(X) Port Number	Additional Port Number	Additional Port Type	Model Type
Option	- 24: 24 ports	- 2: 2 ports	- GC: gigabit combo port	-E: enhanced model with dual DC inputs and -40 °C to 70 °C operating temperature

	Model Name	Description	Operating Temperature
Available Model	RES-3242GC_US	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xGigabit combo ports, SFP socket, US power cord	-10 to 60°C
	RES-3242GC-EU	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xGigabit combo ports, SFP socket, EU power cord	-10 to 60°C
	RES-3242GC-E_US	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xGigabit combo ports, SFP socket, enhanced version, US power cord	-40 to 70°C
	RES-3242GC-E_EU	Industrial 26-port rack mount managed Ethernet switch with 24x10/100Base-T(X) and 2xGigabit combo ports, SFP socket, enhanced version, EU power cord	-40 to 70°C

Packing List

• RES-3422GC series x 1

ORing Tool CD x 1

Quick Installation Guide x 1

• Rack-mount Kit x 1

Console Cable x 1

Optional Accessories

Open-Vision M500 : Powerful Network

Management Windows Utility Suit, 500 IP devices

DR-75 series : 75 Watts DIN-Rail power supply
 (Only for –E)

SFP 1G series : 1Gbps SFP optical transceiver

DR-45 series : 45 Watts DIN-Rail power supply
 (Only for -E)

DR-120 series : 120 Watts DIN-Rail power supply
 (Only for -E)