

RGS-7168GCP / RGS-7168GCP-E



➔ **Industrial 24-port rack-mount managed Gigabit Ethernet switch with 16xGigabit combo ports and 8x100/1000Base-X, SFP socket**

Features

- Support 24 Gigabit ports with **16 x Gigabit combo** ports and **8 x Gigabit SFP** ports
- Support **O-Ring** (recovery time < 30ms over 250 units of connection) and MSTP/RSTP/STP (IEEE 802.1s/w/D) 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
- Supports IPV6 new internet protocol version
- Support Modbus TCP protocol
- Provided HTTPS/SSH protocol to enhance network security
- Supports SMTP client
- Support IP-based bandwidth management
- Support application-based QoS management
- Support IP Police 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, 802.1x User Authentication for security
- Support 9K Bytes Jumbo Frame
- Multiple notification for warning of unexpected event
- Web-based ,Telnet, Console (CLI), and Windows utility (**Open-Vision v3.0**) configuration
- Support LLDP Protocol
- 19-inch rack-mountable design

Thunder  **Rack**



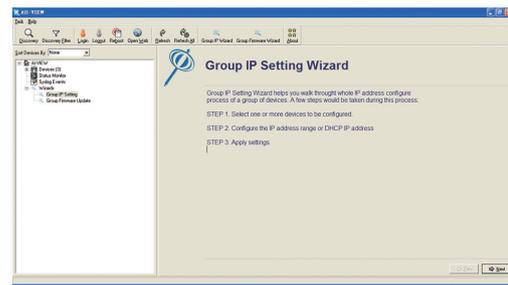
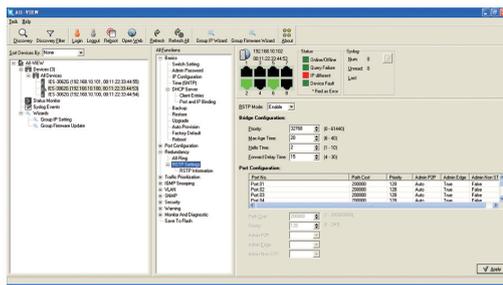
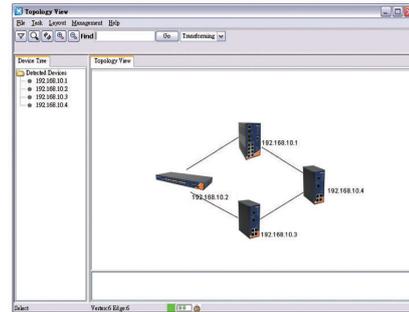
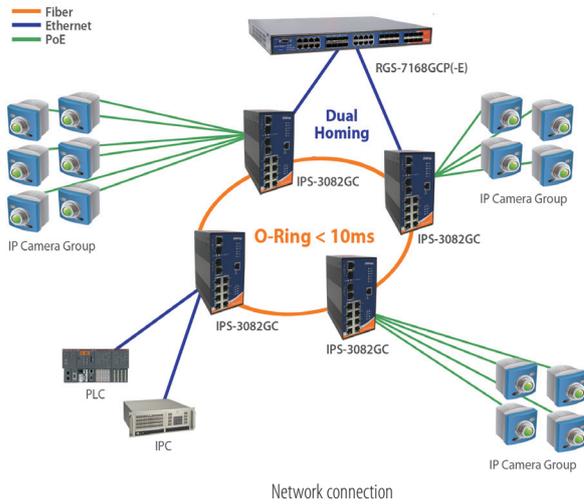
***NOTE: This function is available by request only**

Introduction

RGS-7168GCP series are managed redundant ring Ethernet switches with 16xGigabit combo ports and 8x100/1000Base-X SFP ports. With complete support of Ethernet Redundancy protocol, **O-Ring** (recovery time < 30ms over 250 units of connection) 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. ORing's Thunder switch series provide advanced IP-based bandwidth management which can limit the maximum bandwidth for each IP device. User can configure IP camera and NVR with more bandwidth and limit other device bandwidth. ORing's thunder switch series also support application-based QoS. Application-based QoS can set highest priority for data stream according to TCP/UDP port number. ORing special IP police function can only permit allowed IP address with MAC address to access the network. Hacker cannot access the IP surveillance network without permission. It can avoid hacker from stealing video privacy data and attacking IP camera, NVR and controllers. ORing's thunder series switch also provided advanced DOS/DDOS auto prevention. If there is any IP flow become big in short time, ORing's Thunder switch will lock the source IP address for certain time to prevent the attack. It's hardware-based prevention so it can prevent DOS/DDOS attack immediately and completely. And all functions of RGS-7168GCP series can also be managed centralized and convenient by Open-Vision, Except the Web-based interface, Telnet and console (CLI) configuration. Therefore, the switch is one of the most reliable choice for highly-managed and Gigabit Fiber Ethernet application.

Open-Vision

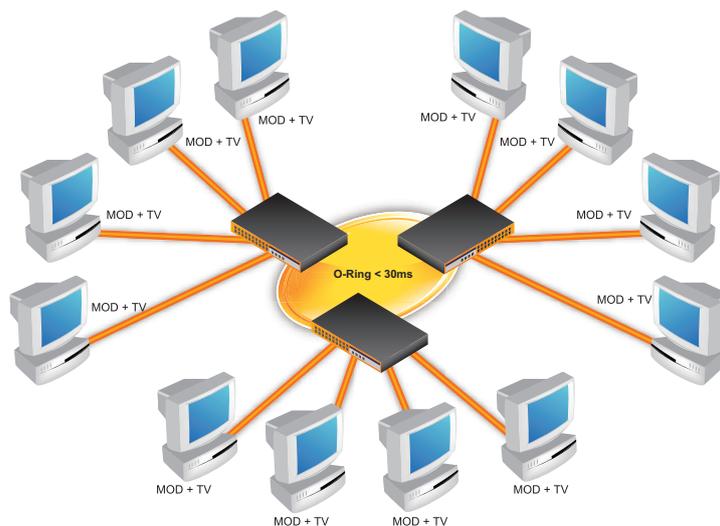
ORing's switches are intelligent switches. Different from other traditional redundant switches, ORing provides a set of Windows utility (Open-Vision) for user to manage and monitor all of industrial Ethernet switches on the industrial network.



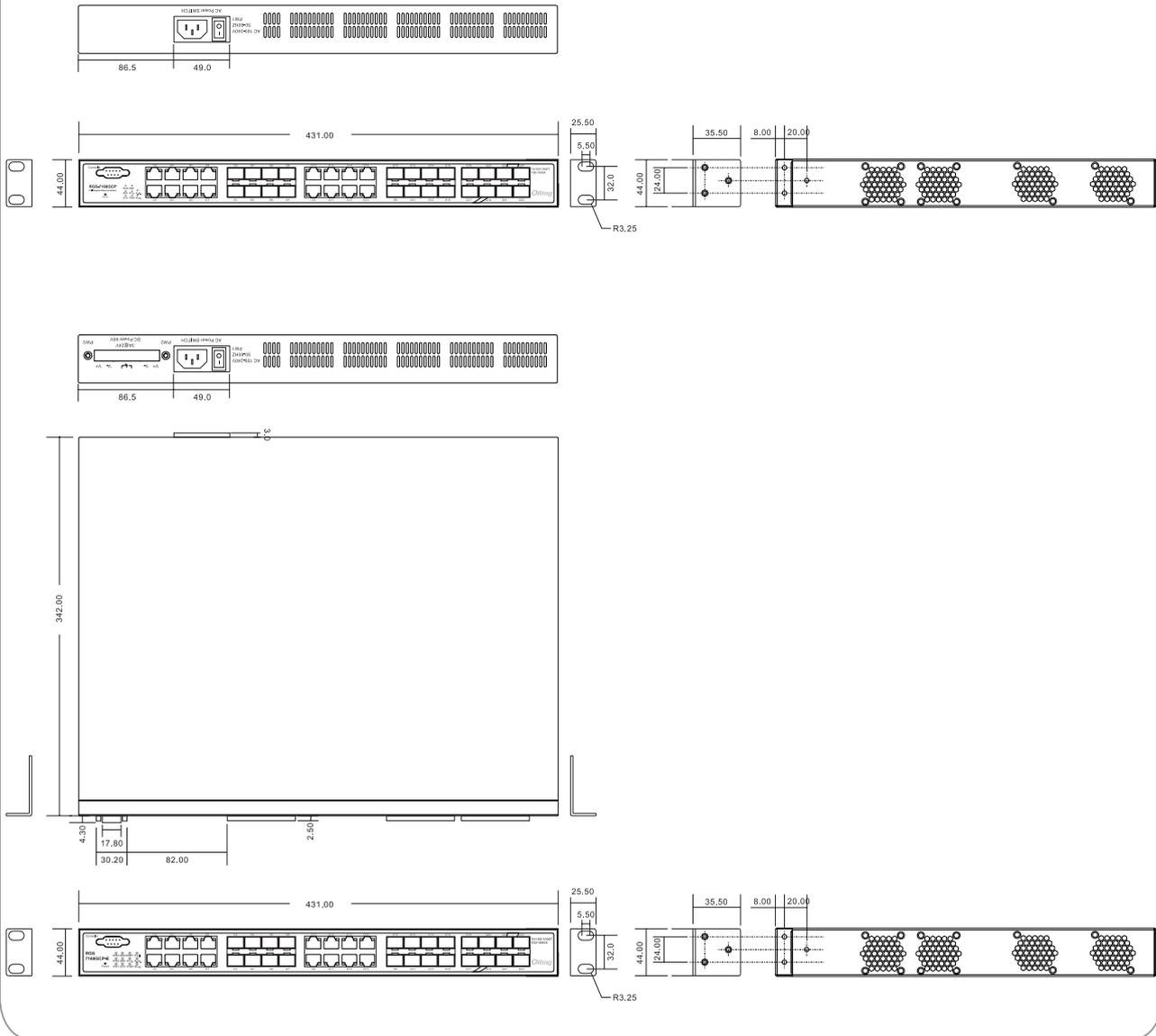
Monitoring and Configuration interface

Application

Network connection



Dimensions



(Unit=mm)

Specifications

ORing Switch Model	RGS-7168GCP	RGS-7168GCP-E
Physical Ports		
Gigabit Combo port with 10/100/1000Base-T(X) and 100/1000Base-X SFP ports		16
100/1000Base-X with SFP port		8

Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

Industrial Wireless Access Point

Industrial Cellular VPN Router

Industrial M2M Gateway

Accessories

Network Management Software

Fault contact		
Relay	N/A	Relay output to carry capacity of 1A at 24VDC
Power		
Redundant Input Power	100~240VAC with power cord	100~240VAC with power cord, dual 36 ~ 72VDC power inputs at 6-pin terminal block
Power Consumption (Typ.)	33 Watts	33 Watts
Overload Current Protection	Present	
Physical Characteristics		
Enclosure	19 inches rack-mountable	
Dimensions (W x D x H)	431 (W) x 342 (D) x 44 (H) mm	
Weight (g)	4350 g	4500 g
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-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	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C)	89,996	59,580
Warranty	5 years	

Ordering Information

RGS-7 **AA** **B** **CC** - **D**

Code Definition	Gigabit Combo Port Number	Gigabit SFP Port Number	Additional Port Type	Model Type
Option	- 16 : 16 ports	- 8 : 8 ports	- GCP : Gigabit Combo ports and Gigabit SFP ports	- E : enhanced model with dual DC inputs and Relay output

	Model Name	Description
Available Model	RGS-7168GCP_US	Industrial 24-port rack-mount managed Gigabit Ethernet switch with 16xGigabit combo ports and 8x100/1000Base-X, SFP socket, US power cord
	RGS-7168GCP_EU	Industrial 24-port rack-mount managed Gigabit Ethernet switch with 16xGigabit combo ports and 8x100/1000Base-X, SFP socket, EU power cord
	RGS-7168GCP-E_US	Industrial 24-port rack-mount managed Gigabit Ethernet switch with 16xGigabit combo ports and 8x100/1000Base-X, SFP socket, enhanced version, US power cord
	RGS-7168GCP-E_EU	Industrial 24-port rack-mount managed Gigabit Ethernet switch with 16xGigabit combo ports and 8x100/1000Base-X, SFP socket, enhanced version, EU power cord

Packing List

- RGS-7168GCP / RGS-7168GCP-E
- Rack-Mount Kit
- Console Cable
- Power Cable
- ORing Tool CD
- Quick Installation Guide

Optional Accessories (Can be purchased separately)

- Open-Vision M500, Powerful Network Management Windows Utility Suite, 500 IP devices
- SFP100 series, 100Mbps SFP optical transceiver
- SFP1G series, 1Gbps SFP optical transceiver
- DR-75-48 : 48V/75Watts DIN-Rail power supply (Only for -E model)
- DR-120-48 : 48V/120Watts DIN-Rail power supply (Only for -E model)
- SDR-240-48, 240W DIN-Rail power supply
- SDR-480-48, 480W DIN-Rail power supply

Industrial Ethernet Switch
Industrial Media Converter
Industrial Device Server
Industrial Wireless Access Point
Industrial Cellular VPN Router
Industrial M2M Gateway
Accessories
Network Management Software