Quick Installation Guide

Introduction

GIGABIT SWITCH

MANAGED Rack-Mount

> RGS-7244GP series are managed redundant ring Ethernet switch with 24x10/100/1000Base-(TX) ports and 4x1000Base-X SFP ports. With completely support of Ethernet Redundancy protocol, O-Ring (recovery time < 20ms 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 the bandwidth of 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's special IP police function can only permit allowed IP address with MAC address to access the networking. 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 switch series 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-7244GP series can also be managed centralized and convenient by Open-Vision v3.0 or above, as well as the Webbased interface, Telnet and console (CLI) configuration. Therefore, the

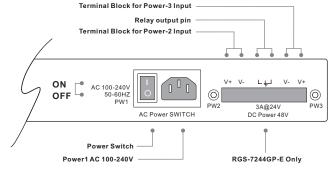
Features

- > Support 24x 10/100/1000 Base-T(X) and 4x1000Base-X SFP ports
- Support Jumbo frame up to 9K Bytes
- Supports O-Ring (recovery time < 20ms over 250 units of connection), MSTP/RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- Supports IP-based bandwidth management
- > Supports application-based QoS management
- > Supports IP police security function
- $\,>\,$ Supports DOS/DDOS auto prevention
- ▶ IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- $_{>}\,$ Supports SNMP v1/v2c/v3, RMON and 802.1Q VLAN Network Management
- > Support ACL, 802.1x User Authentication for security
- > Multiple notification for warning of unexpected event
- $\geq \mbox{Windows utility (Open-Vision) support centralized management and configurable by Web-based interface, Telnet and Console(CLI)$
- Support LLDP Protocol
- Event notification through Syslog, Email, SNMP trap, and Relay Output (for -E module)
- $_{
 m >}\,$ 19 inches rack mounted design

Product Interface

RGS-7244GP/-E





1907-2-29-RGS7244GP1

RGS-7244GP/-E

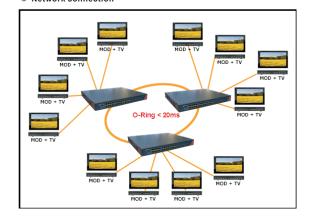
Specifications

Physical Ports 10/100/1000 Base-T(X) Ports in RJ45 Auto MDJ/MDIX 1000Base-X SFP port Technology		4
in RJ45 Auto MDI/MDIX 1000Base-X SFP port		4
1000Base-X SFP port		
Technology		4
Ethernet Standards	IEEE 602.3 for 10Base-7, IEEE 602.3 ufor 100Base-7(X), IEEE 602.3 ab for 1000Base-7, IEEE 802.2 for 1000Base-X, IEEE 802.3 tor 10Base-7, IEEE 802.3 af or LACP (Link Aggregation Control Protocol), IEEE 802.1 pfor COS (Class of Service), IEEE 802.1 qf or VLAN Tagging, IEEE 802.1 bf or STP (Spanning Tree Protocol), IEEE 802.1 kor KSTP (Rajol Spanning Tree Protocol) IEEE 802.1 kor KSTP (Rajol Spanning Tree Protocol) IEEE 802.1 kor KSTP (Rajol Spanning Tree Protocol) IEEE 802.1 kor KSTP (Rajol Spanning Tree Protocol)	
MAC Table	8K	
Priority Queues	4	
Processing	Store-and-Forward	
Switch Properties	Switching hatency: 7 us Switching hatendwidth: S6Gbps Max. Number of Available VLANs: 256 IGMP multicast groups: 128 for each VLAN Port rate limiting: User Define	
Jumbo frame	Up to 9K Bytes	
Security Features	Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.12) (to segregate and secure network traffic Supports Q in-Q VLAN for performance & security to expand the VLAN space NMP of traffic passwork management SNMPA's encrypted authentication and access security STY/STY/NFY (IEE 802.10/w/a), Redundant King (O-King) with recovery time less than 20ms over 250 units , TOS/DIffserv supported Quality of Service (802.1) for real-time traffic, VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP Snooping, IP-based bandwidth management, Application-based QS management DoS/DDOS sup or evention, Port configuration, status, statistics, monitoring, security	
	DHCP Client/Server	
Network Redundancy	O-Ring, STP, RSTP, MSTP	
RS-232 Serial Console Port	RS-232 in DB9 connector with console cable. 115200bps, 8,	N, 1
LED Indicators		
Power Indicator (PWR)	Green: Power indicator For AC	Green: Power indicator For AC and DC
Power1 Indicator (PWR1)	N/A	Green : Indicate Power-1 input
Power2 Indicator (PWR2)	N/A	Green : Indicate Power-2 input
Power3 Indicator (PWR3)	N/A	Green : Indicate Power-3 input
System Ready Indicator (STA)	Green : Indicate that the system is ready. The LED is blinking	when the system is upgrading firmware
Ring Master Indicator (R.M)	Green: Indicate system operated in Ring Master mode	
O-Ring Indicator (Ring)	Green: Indicate system operated in O-Ring mode Blinking to	
Fault Indicator (Fault)	N/A Green : System operated continuously	Amber: Indicate unexpected event occurred
Sysem Runnig Indicator (RUN) Supervisor Login Indicator (RMT)	Green : System operated continuously Green : System is accessed remotely	
Reset To Default Running Indicator (DEF		
Ping Command To The Switch Indicator		
(Ping)	Green : System is processing "PING" request	
10/100/1000 Base-T(X) RJ45 Port Indicator	Left Green for Link/Act indicator Right Amber for full-duplex indicator	
1000Base-X SFP Port Indicator	Green for port Link/Act.	
Fault Contact		
Relay	N/A	Relay output to carry capacity of 3A at 24VDC
Power		
Input power	100 ~ 240VAC with power cord	100~240VAC with power cord, dual 36 ~72VDC power input
Power consumption(Typ.)	36 Watts	at 6-pin terminal block
Overload current protection	Present	
Physical Characteristic	Present	
Enclosure	19 inches rack mountable	
Dimension (W x D x H)	19 inches rack mountable 443.7 (W) x 200 (D) x 44 (H) mm (17.47x7.87x1.73 inch)	431 (W) x 342 (D) x 44 (H) mm (16 06x12 46x1 73 1
Weight (g)	443.7 (W) X 200 (D) X 44 (H) mm (17.47X7.87X1.73 inch)	431 (W) X 342 (D) X 44 (H) mm (16.96X13.46X1.73 incn) 4250q
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature		
	-40 to 70°C (-40 to 158°F)	
One and the state of the state	5% to 95% Non-condensing	
Regulatory approvals		
Regulatory approvals EMI	FCC Part 15, CISPR (EN55022) class A EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT) EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	, EN61000-4-5 (Surge),
Regulatory approvals EMI EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT)	, EN61000-4-5 (Surge),
Operating Humidity Regulatory approvals EMI EMS Shock Free Fail	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT) EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	, EN61000-4-5 (Surge),

Managed Gigabit Ethernet Switch

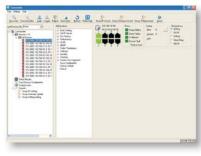
Open-Vision

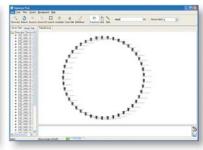
ORing's switches are intelligent switches. Different form other traditional redundant switches, ORing provides a set of Windows utility (Open-Vision) for user to manage and monitor all of industrial Ethernet switches on the industrial network. Network connection



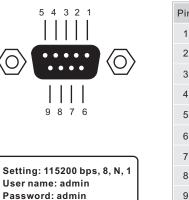
Monitoring and Configuration interface

ce 🔹 Topology View





Console Port Pin Assignment



°in#	RS232 Signal	
1	-	
2	TXD	
3	RXD	
4	-	
5	GND	
6	-	
7	-	
8	-	
9	-	
onsole port act as DCE		

С

Ø PRINTED ON RECYCLED PAPER

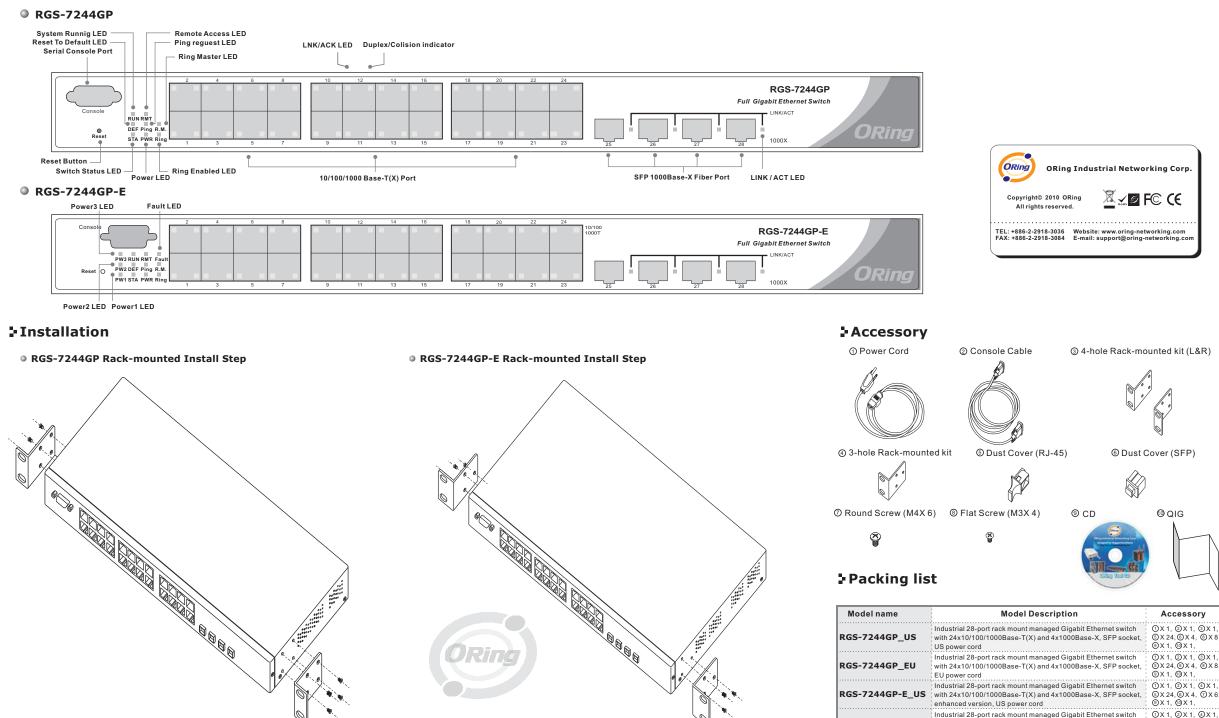
Quick Installation Guide

RGS-7244GP/-E Managed Gigabit Ethernet Switch

Front Panel

GIGABIT SWITCH

MANAGED Rack-Mount



RGS-7244GP-E_EU

⑤X24,⑥X4, ⑦X6

.

9X1, 00X1,

with 24x10/100/1000Base-T(X) and 4x1000Base-X, SFP socket,

enhanced version, EU power cord