RGPS-7084GP-P

Industrial 12-port rack-mount managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. ports and 4x1000Base-X, SFP socket

Features

- Supports O-Ring (recovery time < 20ms over 250 units of connection), MSTP/RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- Supports Jumbo frame up to 9K Bytes
- Supports IP-based bandwidth management
- Supports application-based QoS management
- Supports IP police security function
- Supports DOS/DDOS auto prevention
- 8 port P.S.E. fully compliant with IEEE802.3at standard, provide up to 30Watts per port
- Power supply included
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Supports SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- Supports ACL, 802.1x User Authentication for security
- Multiple notification for warning of unexpected event
- Windows utility (Open-Vision 3.0) support centralized management and configurable by Web-based interface, Telnet and Console (CLI)
- Supports LLDP Protocol
- 11 inches rack-mountable design

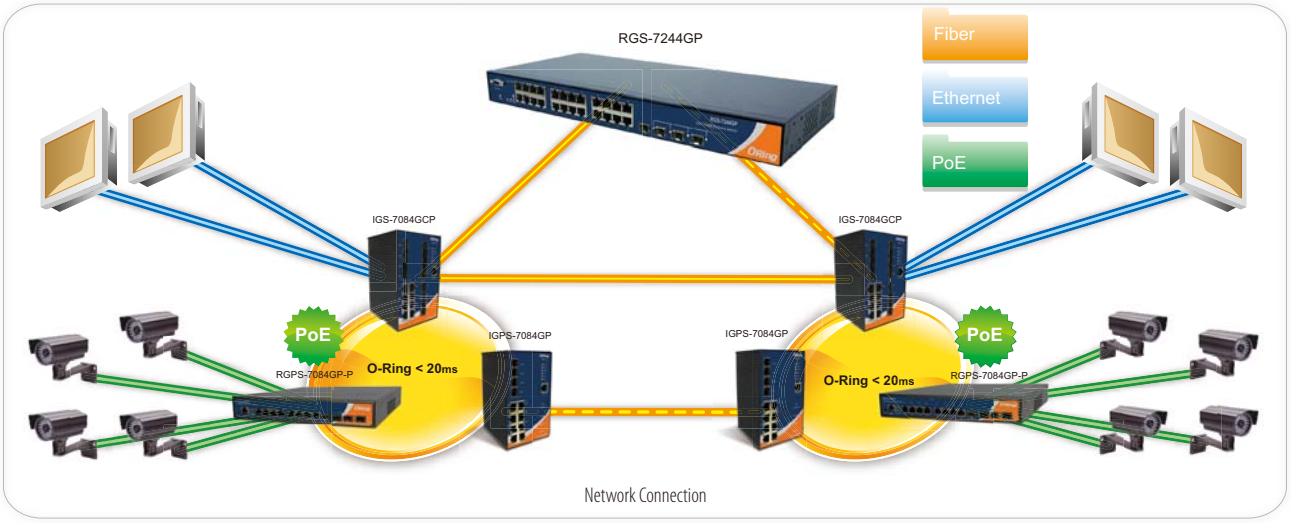
Full Gigabit | P.S.E PUE | O-Ring | -40~70°C Temperature

RoHS Lead Free | CE | FC

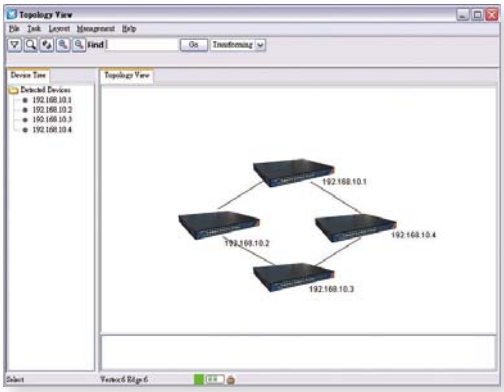
Introduction

RGPS-7084GP-P is the managed redundant ring PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. ports and 4x1000Base-X SFP ports. RGPS-7084GP-P provides advanced IP-based bandwidth management which can limit each IP device maximum bandwidth. User can configure IP camera and NVR with more bandwidth and limit other device bandwidth. RGPS-7084GP-P also supports application-based QoS. Application-based QoS can set highest priority for data stream according TCP/UDP port number. RGPS-7084GP-P also provided advanced DOS/DDOS auto prevention. If there is any IP flow become big in short time, RGPS-7084GP-P will lock the source IP address for certain time to prevent the attack. It's hardware-based prevention so it can prevent big size DOS/DDOS attack immediately and completely. RGPS-7084GP-P also support Power over Ethernet, a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each RGPS-7084GP-P switch has 8x10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE connection. All function of RGPS-7084GP-P can be managed centralized and Web-based, Telnet, Console (CLI). Therefore, the switch is one of the most reliable choice for highly-managed and Gigabit Fiber Ethernet and PoE application.

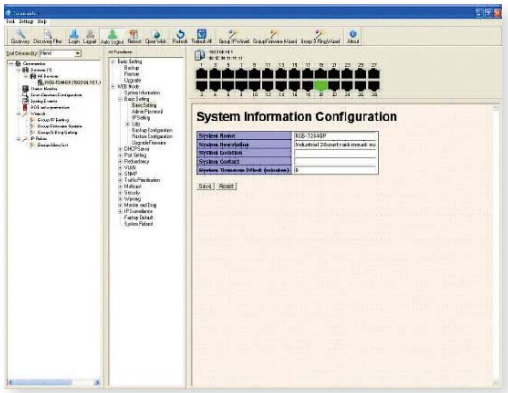
Application



Network Connection

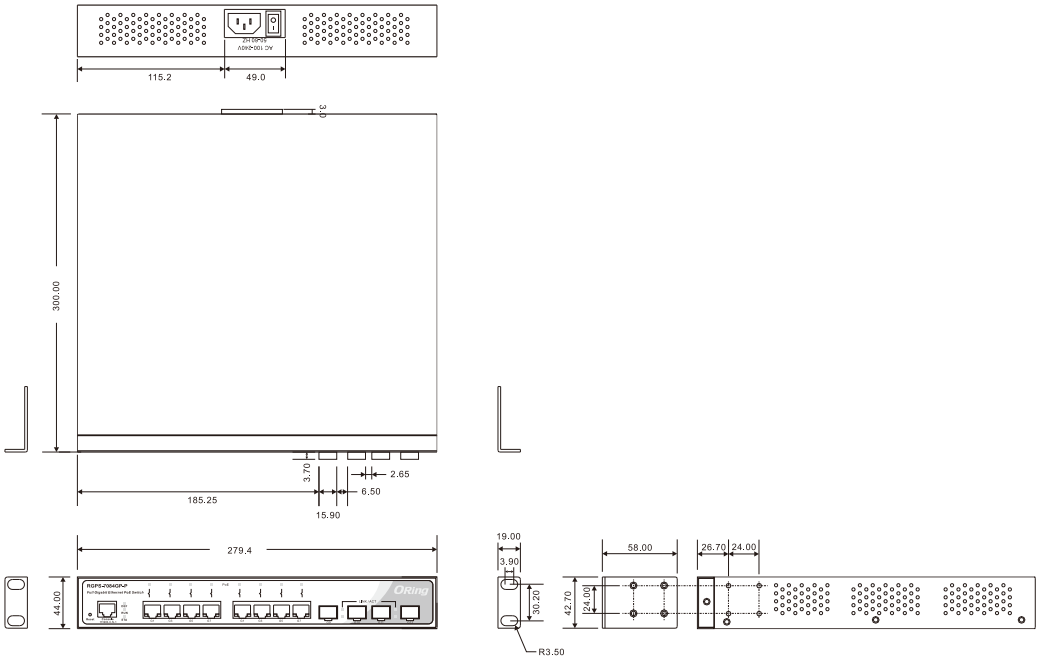


Topology View



Monitoring and Configuration interface

Dimensions



(Unit=mm)

Specifications

ORing Switch Model	RGPS-7084GP-P
Physical Ports	
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E	8 (30 Watts per port)
1000Base-X SFP Port	4
Technology	
Ethernet standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100Base-TX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T 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 802.1x for Authentication IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC table	8192 MAC addresses
Priority queues	4
Processing	Store-and-Forward
Switch properties	Switching latency : 7 µs Switching bandwidth : 24Gbps 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	IP Police security feature Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security
Software features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (O-Ring) with recovery time less than 20ms over 250 units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP Snooping IP-based bandwidth management Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security DHCP Client/Server
Network redundancy	O-Ring STP / RSTP MSTP
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1
LED Indicators	
Power indicator (PWR)	Green : Power indicator
System ready indicator (STA)	Green : Indicates system ready. Blinking for system is upgrading firmware
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 is operating in O-Ring mode. Blinking to indicate Ring is broken.
System running indicator (RUN)	Green : System operated continuously
Reset to default running indicator (DEF)	Green : System reset to default configuration
PoE indicator	Blue : PoE LED x 8
10/100/1000Base-T(X) RJ45 port indicator	Green for port Link/Act. Amber for Duplex/Collision
1000Base-X SFP port indicator	Green for port Link/Act.

Power	
Power Input	AC 100~240V, 50~60Hz
Overload current protection	Present
Physical Characteristics	
Enclosure	11 inches rack-mountable
Dimensions (W x D x H)	279.4(W)x300(D)x44(H) mm (11 x 11.81 x 1.73 inch)
Weight (g)	2950 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
MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C)	41,343
Warranty	5 years

Ordering Information

RGPS-7 AA B CC - D

Code Definition	10/100/1000Base-T(X) P.S.E. Port Number	Additional Port Number	Additional Port Type	Built-In Power Supply
Option	**- 08:** 8 ports	**- 4:** 4 port	**-GP:** 1000Base-X SFP ports	**-P:** power supply included

	Model Name	Description
Available Model	RGPS-7084GP-P_US	Industrial 12-port rack-mount managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. and 4x1000Base-X, SFP socket, power supply included, US power cord
	RGPS-7084GP-P_EU	Industrial 12-port rack-mount managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. and 4x1000Base-X, SFP socket, power supply included, EU power cord

Packing List

- RGPS-7084GP-P
- 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
- SFP1G series, 1Gbps SFP optical transceiver