RGS-3244GP

Industrial 28-port rack mount managed Gigabit Ethernet switch with 24x10/100/1000Base-T(X) and 4x100/1000Base-X, SFP socket

Features

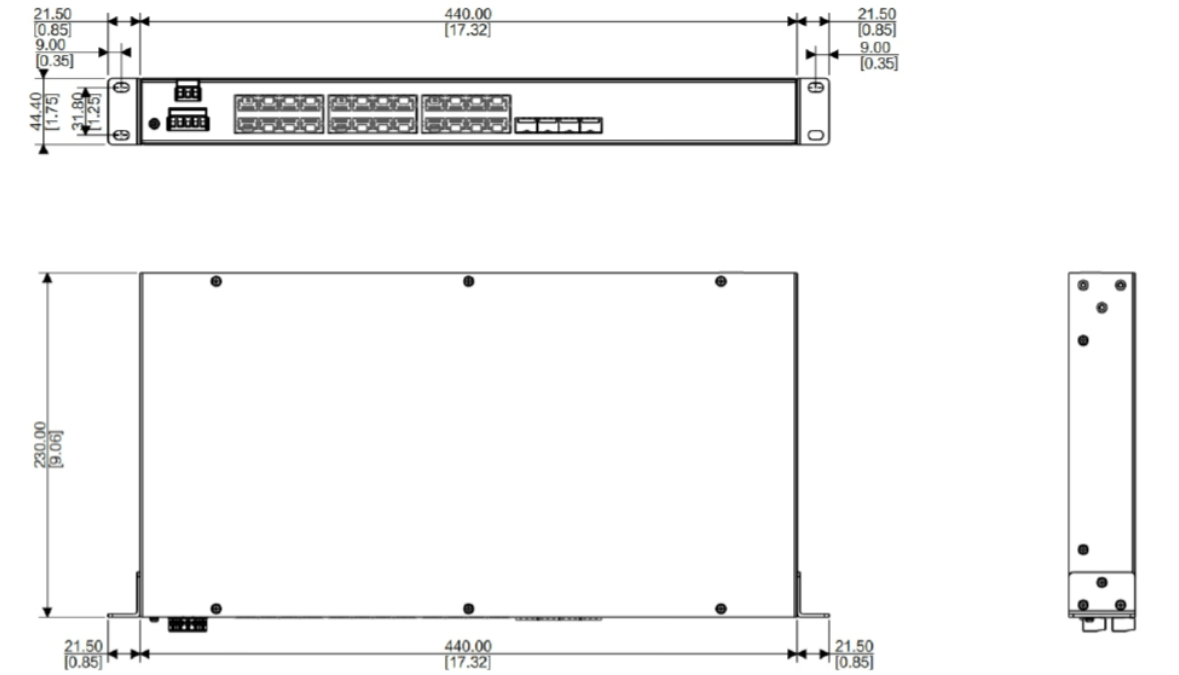
- Redundant Ethernet Ring: **O-Ring** (recovery time < 30ms over 250 units of connection)
- **O-Chain** allow multiple redundant network rings
- Support standard IEC 62439-2 **MRP** (Media Redundancy Protocol) function
- STP/RSTP/MSTP supported
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- IEEE802.1Q VLAN
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Support LLDP protocol
- Event notification through Syslog, SNMP trap.
- 19 inches rack mountable design

Introduction

RGS-3244GP is a rack mount managed Gigabit Redundant Ring Ethernet switch with 24x10/100/1000Base-T(X) ports and 4x100/1000Base-X，SFP socket . With completely support of Ethernet Redundancy protocol, O-Ring (recovery time < 30ms over 250 units of connection), O-Chain 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. O-Chain is the revolutionary network redundancy technology that provides the add-on network redundancy topology for any backbone network, O-Chain allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology. O-Chain providing ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology. It is specifically designed for the toughest industrial environments. In addition, the wide operating temperature range from -40 degrees C to 75 degrees C can satisfy most of operating environment.

Dimensions

Unit=mm



Specifications

ORing Switch Model	RGS-3244GP
Physical Ports	
10/100/1000Base-T(X)Ports in RJ45	**24**
100/1000Base-X SFP	**4**
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX 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	8k
Priority Queues	4

Processing	Store-and-Forward
Jumbo Frames	9712Bytes
Switch Properties	Switching latency: 10us Switching bandwidth: 56Gbps Packet buffer:4.1Mbit Max. Number of Available VLANs: 4096 IGMP multicast groups: 1024
Security Features	Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic SNMP v1/v2c/v3 encrypted authentication and access security
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (O-Ring) with recovery time less than 30ms over 250 units TOS/Diffserv supported TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP Snooping for multicast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network DHCP Server / Client support Port Trunk support
Network Redundancy	O-Ring O-Chain MRP STP/RSTP/MSTP
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1
Transmission Disatance	RJ45 Port: - Up to 100 meters for 10/100/1000Mbps link speed (4-wire Cat.5e or above cable suggested) SFP Slot: Up to 120Km (depends on SFP transceiver)
LED Indications	
Power	Green: Indicate power on
R.M	Green: Indicate system operated in O-Ring Master mode
Ring	Green: Indicate system operated in O-Ring mode
10/100/1000Base-T RJ45 Port	Green: Indicate Link/Act
100/1000Base-X SFP	Green: Indicate Link/Act
Power	
Input power	Dual 85-264VAC/77-300VDC on 5-pin Terminal block
Power consumption (Typ.)	Standby: ≤10W Full Load: ≤25W
Overload current protection	Present
Reverse Polarity Protection	Present
Physical Characteristic	
Enclosure	IP-40
Dimension (W x D x H)	440 x 230 x 44.4 mm/17.32 x 9.06 x 1.75inch
Weight	3.3KG
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	
EMC	CE EMC (EN 55035, EN 55032), FCC Part 15B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	EN 55035 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-3(RS), IEC/EN 61000-4-4(EFT), IEC/EN 61000-4-5(Surge), IEC/EN 61000-4-6(CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11(DIP))
Shock	IEC60068-2-27

Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 62368-1
Warranty	5 years

Ordering Information

	Model Name	Description
Available Model	**RGPS-3244GP**	**Industrial Layer-2 28-port managed Gigabit Ethernet switch with 24x10/100/1000Base-T(X) and 4x100/1000Base-X, SFP socket**
	RGPS-3244GP_EU	**Industrial Layer-2 28-port managed Gigabit Ethernet switch with 24x10/100/1000Base-T(X) and 4x100/1000Base-X, SFP socket, EU power cord**
	RGPS-3244GP_US	**Industrial Layer-2 28-port managed Gigabit Ethernet switch with 24x10/100/1000Base-T(X) and 4x100/1000Base-X, SFP socket, US power cord**

Packing List

- RGS-3244GP x 1
- Quick Installation Guide x 1
- Console cable x 1