IGPS-RX884GTP+

Industrial advanced Layer 3 20-port managed Gigabit Ethernet switch with 8x10/100/1000Base-T(X) ports, 8x10/100/1000Base-T(X) P.S.E. ports and 4x1G/10GBase-X ports, SFP+ socket

Features

- Support 8-ports IEEE 802.3af/at compliant PoE and total power budget is 100W with maximum 30W per port
- Support routing protocols Static routing, RIP v1/v2, OSPF, PIM-SM, PIM-DM, VRRP
- ▶ IEEE 802.1AS for timing & Synchronization
- Support **O-Ring** (recovery time < 30ms) and MSTP(RSTP/STP compatible) for Ethernet Redundancy
- O-Chain allow multiple redundant network rings
- Provided HTTPS/SSH protocol to enhance network security
- Support SNTP client
- Support application-based QoS management
- 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 and 802.1x User Authentication for security
- Support 12K Bytes Jumbo Frame
- Multiple notification for warning of unexpected event
- Web-based ,Telnet, Console (CLI),
- Rigid IP-30 housing design
- > DIN-Rail and wall mounting enabled









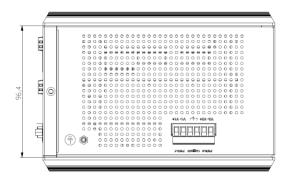


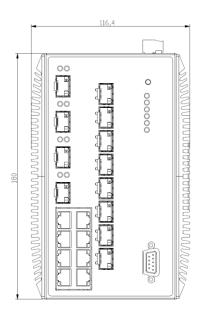
Introduction

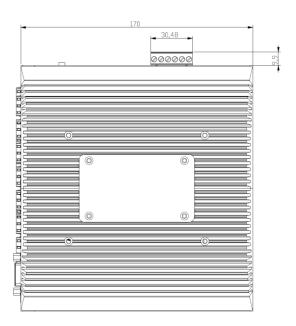
IGPS-RX884GTP+ advanced Layer 3 managed redundant ring Ethernet switch with 8x10/100/1000Base-T(X) ports + 8x10/100/1000Base-T(X) P.S.E ports and 4x1G/10GBase-X SFP ports. The IGPS-RX884GTP+ supports routing protocols such as static routing, RIP v1/v2, OSPF and PIM which are suitable for large scale network environment. The hardware Layer 3 switch is optimized to transmit data as fast as Layer-2 switches. With completely support of Ethernet Redundancy protocol, **O-Ring** (recovery time < 30ms) and MSTP (RSTP/STP compatible) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. And support wide operating temperature from -40 °C to 75°C. IGPS-RX884GTP+ can also be managed centralized and convenient by Open-Vision, as well as the Web-based interface, Telnet and console (CLI) configuration. Therefore, the switch is one of the most reliable choice for highly-managed and Fiber Ethernet application.

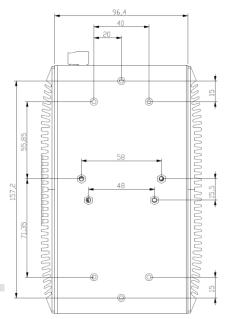
- O-Ring: O-Ring is ORing's proprietary redundant ring technology, with recovery time of less 30 milliseconds. The
 O-Ring redundant ring technology can protect mission-critical application from network interruptions or temporary
 malfunction with its fast recover technology.
- O-Chain: O-Chain is the 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.

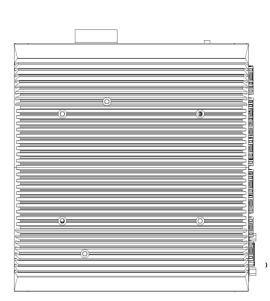
Dimension











Specifications

ORing Switch Model	IGPS-RX884GTP+
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	8
10/100/1000Base-T(X) P.S.E Ports in RJ45 Auto MDI/MDIX	8
1G/2.5G/10GBase-X with SFP+ port	4
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3ac for 10Gigabit Ethernet IEEE 802.3x for Flow control IEEE 802.3d for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1u for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AS for Timing and Synchronization IEEE 802.1Oat for Stream Reservation IEEE 802.1Oat for Stream Reservation IEEE 802.1Oat for Forwarding and Queuing Enhancements for Time-Sensitive Streams
MAC Table	IEEE 802.3af/at PoE specification 16k
Priority Queues	8
Packet Buffer	2MB
Flash Memory	512Mbits
DRAM Size	8Gbits
Jumbo frame	Up to 12K Bytes
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 112Gbps Throughput (packet per second): 83.32Mpps@64Bytes packet Max. Number of Available VLANs: 4095 VLAN ID Range: VID 1 to 4094 IGMP multicast groups: 128 for each VLAN Port rate limiting: User Define
Security Features	Enable/disable ports, MAC based port security Port based network access control (802.1x) MAC-based authentication(802.1x) VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security Web and CLI authentication and authorization IP source guard Https / SSH enhance network security
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (O-Ring) with recovery time less than 30ms TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging IGMP Snooping Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security Port mirroring DHCP Server/Client/Relay SNTP Client
Network Redundancy	O-Ring O-Chain

	MSTP/RSTP/STP	
	Unicast Routing	
Routing Protocols	- Static routing, RIP v1/v2, OSPF	
	Multicast Routing	
Realing Protectors	-PIM-SM, PIM-DM,	
	Routing Redundancy -VRRP	
	PoE configuration	
	PoE Status	
PoE management	PoE Scheduling(turn on/off the PoE device)	
	Auto-Ping check(Reboot PDs if there is no responses)	
RS-232 Serial Console Port	RS-232 in DB9 connector with console cable. 115200bps, 8, N, 1	
LED indicators		
Power Indicator (PWR)	Green: Power LED x 3	
Ring Master Indicator (R.M.)	Green: Indicates that the system is operating in O-Ring Master mode	
0.01 1.11 (01.)	Green: Indicates that the system operating in O-Ring mode	
O-Ring Indicator (Ring)	Green Blinking: Indicates that the Ring is broken.	
Fault Indicator (Fault)	Amber : Indicate unexpected event occurred	
10/100/1000Base-T(X) RJ45 Port	Upper for Link/Act indicator, Green for Link/Act indicator	
Indicator	Lower for speed indicator, Green for 1000Mbps, Amber for 100Mbps, Off-light for 10Mbps	
10/100/1000Base-T(X) RJ45 P.S.E Port Indicator	Upper for Link/Act indicator, Green for Link/Act indicator Lower for PoE indicator, Green for PoE enable	
1G/2.5G/10GBase-X SFP+ Port	Lower for Poe indicator, Green for Poe enable	
Indicator	Green for port Link/Act.	
Fault contact		
Relay	Relay output to carry capacity of 1A at 24VDC	
Power		
Redundant Input power	Dual DC inputs 50~57VDC on 6-pin terminal block	
Power consumption (Typ.)	20W(without PoE)	
Total PoE power budget	100W@75°c/180W@60°C	
Overload current protection	Present	
<u> </u>	Present	
Reverse Polarity Protection	Present	
Physical Characteristic		
Enclosure	IP-30	
Dimension (W x D x H)	116 x 170 x 180 mm	
Weight (g)	2,8Kg	
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-40 to 75 ° C	
Operating Humidity	5% to 95% Non-condensing	
Regulatory approvals		
EMC	CE EMC (EN 55035, EN 55032), FCC Part 15 B	
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A	
EMS	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)	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-31	
Vibration	IEC60068-2-6	
	1	
MTBF	252,899 hrs	

Ordering Information

	Model Name	Description
Available Model	IGPS-RX884GTP+	Industrial advanced Layer 3 20-port managed Gigabit Ethernet switch with
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		4x1G/10GBase-X ports, SFP+ socket

Packing List

- IGPS-RX884GTP+
- ORing Tool CD x 1
- Quick Installation Guide x 1

- DIN-Rail Kit x 1
- Wall-mount Kit x 2
- Console Cable x 1

Optional Accessories

- Open-Vision M500 : Powerful Network
 - Management Windows Utility Suit, 500 IP devices
- DR/SDR/NDR series : DIN-Rail power supply
- SFP 1G series : 1Gbps SFP optical transceiver
- SFP 10G series : 10Gbps SFP optical transceiver