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









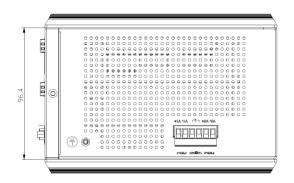


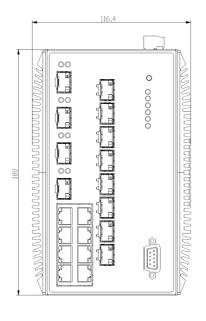
Introduction

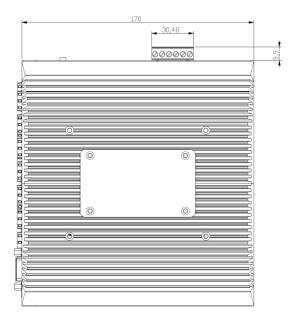
IGPS-RX884GTP+ advanced Layer 3 managed redundant ring Ethernet switch with 8x10/100/1000Base-T(X) ports + 8x10/100/1000Base-T(X) P.S.E ports and 4x1G/10GBase-X SFP ports. The IGPS-RX884GTP+ supports routing protocols such as static routing, RIP v1/v2, OSPF and PIM which are suitable for large scale 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.

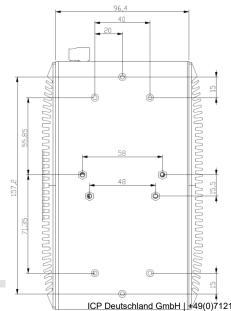
- O-Ring: O-Ring is ORing's proprietary redundant ring technology, with recovery time of less 30 milliseconds. The O-Ring redundant ring technology can protect mission-critical application from network interruptions or temporary malfunction with its fast recover technology.
- O-Chain: O-Chain is the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

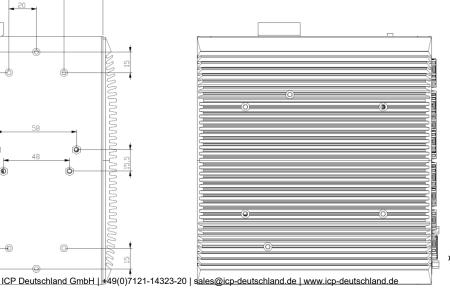
Dimension











change without notice.

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	
3,	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 802.3ae for 10Gigabit Ethernet
	IEEE 802.3x for Flow control
	IEEE 802.3ad for LACP (Link Aggregation Control Protocol)
	IEEE 802.1p for COS (Class of Service)
Ethernet Standards	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)
	IEEE 802.1AS for Timing and Synchronization
	IEEE 802.1Qat for Stream Reservation
	IEEE 802.1Qav for Forwarding and Queuing Enhancements for Time-Sensitive Streams
	IEEE 802.3af/at PoE specification
MAC Table	16k
Priority Queues	8
Packet Buffer	2MB
Flash Memory	512Mbits
DRAM Size	8Gbits
Jumbo frame	Up to 12K Bytes
Processing	Store-and-Forward
	Switching latency: 7 us
	Switching bandwidth: 112Gbps
	Throughput (packet per second): 83.32Mpps@64Bytes packet
Switch Properties	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
	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
Security Features	Radius centralized password management
	SNMPv3 encrypted authentication and access security
	Web and CLI authentication and authorization
	IP source guard
	Https / SSH enhance network security
	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
Software Features	IGMP Snooping
	Application-based QoS management
	DOS/DDOS auto prevention
	Port configuration, status, statistics, monitoring, security
	Port mirroring
	DHCP Server/Client/Relay
	SNTP Client
Notwork Rodundanay	O-Ring
Network Redundancy	O-Chain

	MSTP/RSTP/STP
	MSTP/KSTP/STP
	Unicast Routing
	- Static routing, RIP v1/v2, OSPF Multicast Routing
Routing Protocols	-PIM-SM, PIM-DM,
	Routing Redundancy
	-VRRP
	PoE configuration
PoE management	PoE Status 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
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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 operating in O-Ring mode
Fault Indiantary (Fault)	Green Blinking: Indicates that the Ring is broken.
Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port	Amber : Indicate unexpected event occurred
10/100/1000Base-T(X) RJ45 Port Indicator	Upper for Link/Act indicator, Green for Link/Act indicator Lower for speed indicator, Green for 1000Mbps, Amber for 100Mbps, Off-light for 10Mbps
10/100/1000Base-T(X) RJ45 P.S.E	Upper for Link/Act indicator, Green for Link/Act indicator
Port Indicator	Lower for PoE indicator, Green for PoE enable
1G/2.5G/10GBase-X SFP+ Port	Green for port Link/Act.
Indicator	dicentor port amyree.
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
Reverse Polarity Protection	Present
Physical Characteristic	
Enclosure	IP-30
	116 x 170 x 180 mm
Dimension (W x D x H)	
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
	IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge),
EMS	IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF)
Shock	IEC60068-2-27
Shock Free Fall	IEC60068-2-27 IEC60068-2-31
Free Fall	IEC60068-2-31

Ordering Information

	Model Name	Description
Available		Industrial advanced Layer 3 20-port managed Gigabit Ethernet switch with
Model	IGPS-RX884GTP+	8x10/100/1000Base-T(X) ports, 8x10/100/1000Base-T(X) P.S.E. ports and
		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