

IGPS-9084GP-LA-24V

Managed Cyber-hardened 12-port Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. ports and 4x100/1000Base-X, SFP socket, 24VDC power inputs

Features

- Developed according to IEC 62443-4-1 and certified with the IEC 62443-4-2 industrial cybersecurity standards
- Support O-Ring (recovery time < 30ms) and MSTP(RSTP/STP compatible) for Ethernet Redundancy
- **O-Chain** allow multiple redundant network rings
- Support standard IEC 62439-2 MRP(Media Redundancy Protocol) function
- 8 port P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts per port
- Support PoE on/off scheduled configuration
- Support PoE alive check and auto reboot fuction
- Support IPV6 new internet protocol version
- Support Modbus TCP protocol
- Provided HTTPS/SSH protocol to enhance network security
- Support SMTP client and NTP server protocol
- Support IP-based bandwidth management
- Support application-based QoS management
- Support Device Binding security function
- Support DOS/DDOS auto prevention
- Support auto-negotiation and auto-MDI/MDIX
- Support full and half duplex mode
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Support SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- Support ACL, TACACS+ and 802.1x User Authentication for security
- Support 9.6K Bytes Jumbo Frame
- Syslog/SNMP Trap notification for warning of unexpected event
- Support DBU-01 backup unit device to quickly backup/restore configuration
- Web-based ,SNMP v1/v2c/v3, Telnet, Console (CLI), and Windows utility (Open-Vision) configuration
- Support LLDP Protocol
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled





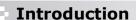










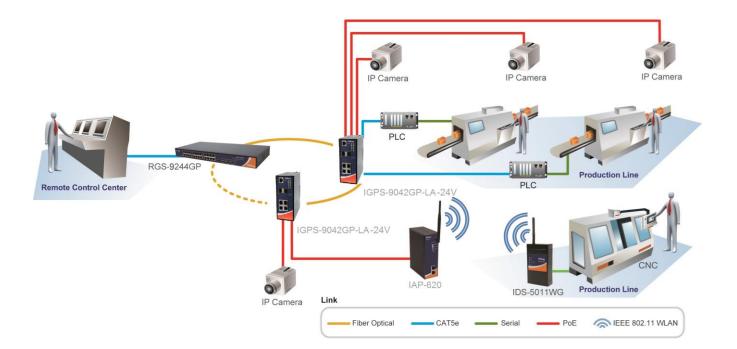


IGPS-9084GP-LA-24V is layer2 managed PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. ports and 4x100/1000Base-X SFP ports. The switch support Ethernet Redundancy protocol, **O-Ring** (recovery time < 30ms) and MSTP (RSTP/STP compatible) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. IGPS-9084GP-LA-24V also support Power over Ethernet, a system to transmit electrical power up to 30 watts, total PoE power budget is 120W max, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IGPS-9084GP-LA-24V 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. And support wide operating temperature from -40 °C to 75 °C. IGPS-9084GP-LA-24V can also be managed centralized and convenient by Open-Vision, except the Web-based interface, Telnet and console (CLI) configuration.



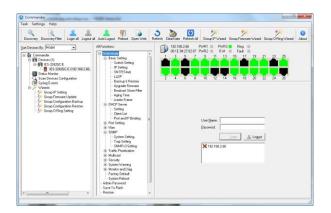
- O-Ring: O-Ring is ORing's proprietary redundant ring technology, with recovery time of less 30 milliseconds and up to 250 nodes. The O-Ring redundant ring technology can protect mission-critical application from network interruptions or temporary malfunction with its fast recover technology.
- O-Chain: 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.
- MRP: Media Redundancy Protocol (MRP) is a data network protocol standardized by the IEC 62439-2. It allows rings of Ethernet switches to overcome any single failure with recovery time much faster than achievable with Spanning Tree Protocol.
- IP-based Bandwidth Management: The switch 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 other device bandwidth.
- **Application-Based QoS**: The switch also support application-based QoS. Application-based QoS can set highest priority for data stream according to TCP/UDP port number.
- <u>Device Binding Function</u>: ORing special Device Binding function can only permit allowed IP address with MAC address
 to access the network. 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.
- Advanced DOS/DDOS Auto Prevention: The switch also provided advanced DOS/DDOS auto prevention. If there is any IP flow become big in short time, the 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.
- Modbus TCP: This is a Modbus variant used for communications over TCP/IP networks.

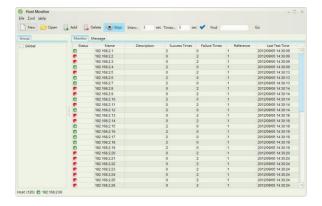
• *NOTE: This function is available by request only



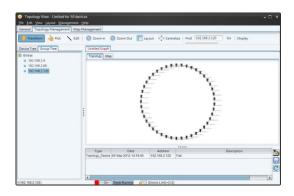
Open-Vision

ORing's switches are intelligent switches. Different from 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.





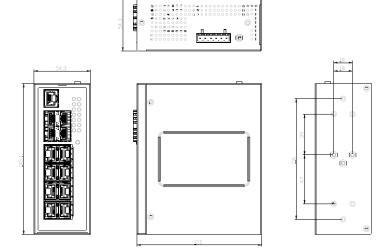
Commander



Host Monitor

Dimension

Topology View



PoE Pin Definition

10/100Base-T(X) P.S.E. RJ-45 port

	RJ-45 Pin Definition			
Pin No.	Description			
#1	TD+ with PoE Power input +			
#2	TD- with PoE Power input +			
#3	RD+ with PoE Power input -			
#6	RD- with PoE Power input -			

• 1000Base-T P.S.E. RJ-45 port

	RJ-45 Pin Definition			
Pin No.	Description			
#1	BI_DA+ with PoE Power input +			
#2	BI_DA- with PoE Power input +			
#3	BI_DB+ with PoE Power input -			
#4	BI_DC+			
#5	BI_DC-			
#6	BI_DB- with PoE Power input -			
#7	BI_DD+			
#8	BI_DD-			

Specifications

ORing Switch Model	IGPS-9084GP-LA-24V				
Physical Ports					
10/100/1000Base-T(X) with P.S.E. Ports in RJ45 Auto MDI/MDIX	8				
100/1000Base-X with SFP port	4				
Technology					
	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 802.3x for Flow control				
Ethernet Standards	IEEE 802.3ad for LACP (Link Aggregation Control Protocol)				
Ethernet Standards	IEEE 802.1p for COS (Class of Service)				
	IEEE 802.1Q for VLAN Tagging				
	IEEE 802.1Q-2014 MSTP (compatible with STP/RSTP)				
	IEEE 802.1x for Authentication				
	IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)				
	IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)				
PoE Power Supply Type	Endspan mode				
MAC Table	8k				

Source-part	Priority Queues	8
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Physical Characteristic Enclosure IP-30 Metal	Overload current protection	Present
Physical Characteristic Enclosure IP-30 Metal	Reverse Polarity Protection	Present
Enclosure IP-30 Metal	•	
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Discoursion (M.), D.(11)		
Dimension (W X D X H) 54.3 (W) X 120 (D) X 145.1 (H) mm (2.13 X 4./2 X 5.71 inches)	Dimension (W x D x H)	54.3 (W) x 120 (D) x 145.1 (H) mm (2.13 x 4.72 x 5.71 inches)

Weight	924g
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	
dering Informa	tion IEC 62443-4-1, IEC 62443-4-2
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)
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN62368-1,UL61010-1
MTDE	487,579hr
MTBF	

IGPS-90ABCC-LA-24V

Code Definition	10/100/1000Base-T(X) P.S.E. Port Number	100/1000Base-X Number	SFP	Port	Additional Port Type	Version
Option	- 8: 8 ports	- 4: 4 ports			-GP: Gigabit SFP ports	L: non-IEEE 1588

	Model Name	Description
Available	IGPS-9084GP-LA-24V	Managed Cyber-hardened 12-port Gigabit PoE Ethernet switch with
Model		8x10/100/1000Base-T(X) P.S.E. ports and 4x100/1000Base-X, SFP socket, 24V power
		inputs

Packing List

- IGPS-9084GP-LA-24V x 1
- 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
- DBU-01 : backup unit device

- SFP100 series : 100Mbps SFP optical transceiver
- SFP 1G series : 1Gbps SFP optical transceiver
- DR/SDR/NDR 48V series : DIN-Rail power supply