

IGPS-9080 Series

Industrial 8-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E.

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Features

- Supports O-Ring (recovery time < 30ms over 250 units of connection) and MSTP(RSTP/STP compatible) for Ethernet Redundancy
- Open-Ring support the other vendor's ring technology in open architecture
- O-Chain allow multiple redundant network rings
- Supports 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
- Supports PoE scheduled configuration and PoE auto-ping check function
- Supports IEEE 1588v2 clock synchronization (-NP model is not supported)
- Supports IPV6 new internet protocol version
- Supports Modbus TCP protocol
- Supports IEEE 802.3az Energy-Efficient Ethernet technology
- Provided HTTPS/SSH protocol to enhance network security
- Supports SMTP client
- Supports IP-based bandwidth management
- Supports application-based QoS management
- Supports Device Binding security function
- Supports DOS/DDOS auto prevention
- ➤ IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Supports SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- Supports ACL, TACACS+ and 802.1x User Authentication for security
- Supports 9.6K Bytes Jumbo Frame
- Multiple notification for warning of unexpected event
- Web-based ,Telnet, Console (CLI), and Windows utility (Open-Vision) configuration
- Supports LLDP Protocol
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled















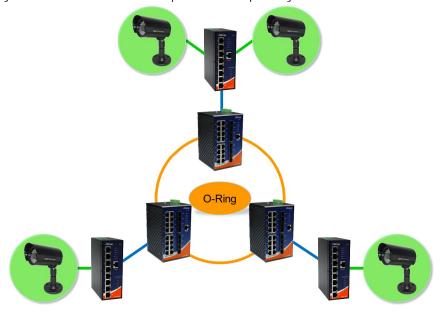
Introduction

IGPS-9080 series are managed redundant ring PoE Ethernet switches with 8x10/100/1000Base-T(X) P.S.E. ports. These switches support Ethernet Redundancy protocol, O-Ring (recovery time < 30ms over 250 units of connection) and MSTP (RSTP/STP compatible) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. IGPS-9080 series 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 IGPS-9080 series 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 70 °C. IGPS-9080 series can also be managed centralized and convenient by Open-Vision, Except the Web-based interface,



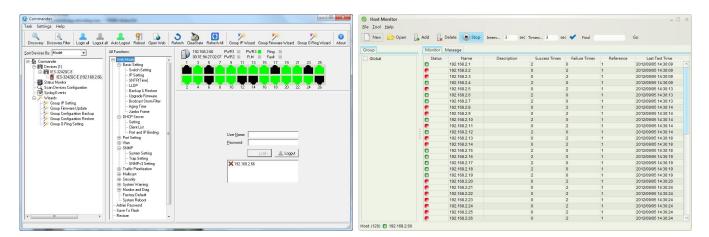
Telnet and console (CLI) configuration. Therefore, the switch is one of the most reliable choices for highly-managed Ethernet application.

- 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.
- Open-Ring: Open-Ring is an enhanced redundant technology that makes ORing's switches compatible with other
 vendor's proprietary redundant ring technologies. It enables ORing's switches to form a single ring with other
 vendor's switch. In cases where the ring is setup using proprietary technology, ORing offers a compatibility service
 where ORing can make its switches compatible with your particular network requirements.
- 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.
- <u>Advanced DOS/DDOS Auto Prevention</u>: 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.
- <u>IEEE 1588v2 Technology</u>: The IEEE 1588v2 technology can fulfill precision time synchronization requirements for protection and control applications.
- <u>Modbus TCP</u>: This is a Modbus variant used for communications over TCP/IP networks.
- <u>IEEE 802.3az Energy-Efficient Ethernet</u>: This is a set of enhancements to the twisted-pair and backplane Ethernet family of networking standards that will allow for less power consumption during periods of low data activity. The intention was to reduce power consumption by 50% or more.

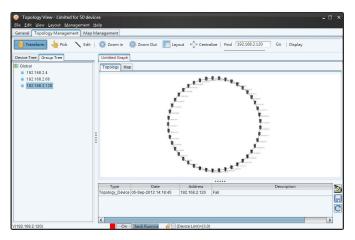


Open-Vision

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



Topology View

PoE Pin Definition

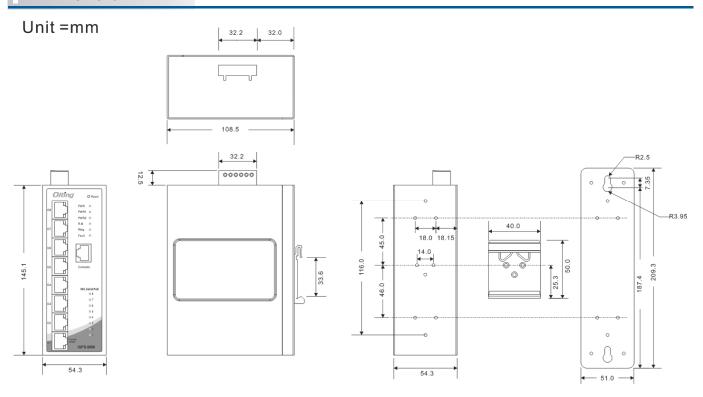
• 10/100Base-T(X) P.S.E. RJ-45 port

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-		

Dimension



Specifications

ORing Switch Model	IGPS-9080 (Preliminary)	IGPS-9080-NP (Prelimenary)	IGPS-9080-24V	IGPS-9080-NP-24V
Physical Ports				
10/100/1000Base-T(X) with P.S.E. Ports in RJ45 Auto MDI/MDIX			8	
Technology Ethernet Standards	IEEE 802.3 for 10Base	-Т		

IEEE 80 IEEE 8					
POE Output Watts MAC Table Priority Queues Switch Properties Max. Nu. IGMP m. Port rat. Switchir Sw		IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T			
IEEE 80 IEEE 8	IEEE 802.3x for Flow control				
IEEE 80 IEEE 8	2.3ad for LACP (Link Aggregation Contro	ol Protocol)			
PoE Output Watts MAC Table Priority Queues Processing Switch Properties Max. Number Security Features Security Features Security Features Software Features Software Features Network Redundancy O-Ring Open-R MSTP (F RS-232 Serial Console Port RS-232 LED Indicator (PWR) Ring Master Indicator (R.M.) Green: O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Green for Green Elevation Indicator PoE Indicator Green	2.1p for COS (Class of Service)				
PoE Output Watts MAC Table Priority Queues Processing Switch Properties Switch Properties Switch Properties Poecurity Features Security Feat	2.1Q for VLAN Tagging				
POE Output Watts MAC Table Priority Queues Processing Processing Processing Switchir Swit	IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)				
PoE Output Watts MAC Table MAC Table Priority Queues Processing Switchir Switch Properties Max. Nu. IGMP m Port rat Jumbo frame Up to 9. Security Features VLAN (6 Radius of SNMPV3 Https / Https / STP/RS' Redund TOS/Dif Quality VLAN (6 IGMP STP/RS' Redund TOS/Dif Quality VLAN (6 IGMP STP/RS' Redund TOS/Dif Quality VLAN (6 IGMP STP (6 IGMP STP) Redund TOS/Dif Quality VLAN (6 IGMP STP) Redund TOS/Dif Redund	IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol)				
PoE Output Watts MAC Table	IEEE 802.1x for Authentication				
PoE Output Watts MAC Table	IEEE 802.1AB for LLDP (Link Layer Discovery Protocol) IEEE 1588v2 clock synchronization				
MAC Table Priority Queues Processing Switchir Switch Properties Switch Properties Switch Properties Max. No. IGMP m. Port rat Jumbo frame Up to 9. Device I. Enable/Port bas Security Features Securit					
MAC Table Priority Queues Processing Store-a Switchir Switch Properties Max. Nat. IGMP m Port rat Jumbo frame Up to 9 Device I Enable/ Port bas VLAN (8 Radius o SNMPV3 Https / Pot STP/RS' Redund TOS/Diff Quality VLAN (8 IGMP Si IP-base Applicat DOS/Diff Port con DHCP S SMTP C Modbus Network Redundancy Network Redundancy Network Redundancy Network Redundancy Network Redundancy O-Ring Open-R O-Chaim MRP MSTP (F RS-232 LED Indicator (PWR) Ring Master Indicator (R.M.) Green : Green E Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green L Green I Indicator Green I	2.3at PoE specification (up to 30 Watts	per port for P.S.E.)			
MAC Table Priority Queues Processing Store-a Switchir Switch Properties Max. Nat. IGMP m Port rat Jumbo frame Up to 9 Device I Enable/ Port bas VLAN (8 Radius o SNMPV3 Https / Pot STP/RS' Redund TOS/Diff Quality VLAN (8 IGMP Si IP-base Applicat DOS/Diff Port con DHCP S SMTP C Modbus Network Redundancy Network Redundancy Network Redundancy Network Redundancy Network Redundancy O-Ring Open-R O-Chaim MRP MSTP (F RS-232 LED Indicator (PWR) Ring Master Indicator (R.M.) Green : Green E Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green L Green I Indicator Green I	240 Watts Max.	12 ~24VDC : 60Watts Max.			
Priority Queues Processing Store-al Switchir Max. No. IGMP m Port rat Up to 9. Device I Enable/ Port bas Scurity Features Security Features S	240 Watts Max.	24 ~ 57VDC : 120Watts Max.			
Processing Store-all Switchir Max. No. IGMP me Port rat Up to 9. Jumbo frame Jumbo frame Device I Enable/Port base Scurity Features Security Features					
Switch Properties Switch Properties Switch Max. Nu. IGMP m. Port rat. IGMP m. Port bas. IGMP Science of Shape. Security Features S					
Switchir Max. Nu IGMP m Port rat Jumbo frame Up to 9 Device I Enable/ Port bas VLAN (8 Radius of SNMPV3 Https / Port Corn DHCP S MTP C Modbus Network Redundancy O-Chain MRP MSTP (F RS-232 Serial Console Port RS-232 LED Indicators Power Indicator (PWR) Green: Green: Green: Green: Fault Indicator (Fault) Amber: 10/100/1000Base-T(X) RJ45 Port Green for Indicator PoE Indicator Foe Indicator Green Indicator Green Indicator Fault Indicator (Fault) Amber: 10/100/1000Base-T(X) RJ45 Port Green for Indicator PoE Indicator Foe Indicator Green Indicator Green Indicator Foe Indicator Green Indicator Green Indicator Green Indicator Fault Indicator (Fault) Amber: Green Indicator	d-Forward				
Switch Properties	g latency: 7 us				
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Security Features Security Features Security Features Povice I Enable/Port bas VLAN (8 Radius of SNMPV3 Https / STP/RS' Redund TOS/Diff Quality VLAN (8 IGMP St IP-base Applicat DOS/DE Port cord DHCP S SMTP C Modbus Network Redundancy Network Redundancy Network Redundancy O-Ring Open-R O-Chain MRP MSTP (F RS-232 Serial Console Port RS-23	limiting: User Define				
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SNMPV3 Https / STP/RS' Redund TOS/Dif Quality VLAN (6 IGMP Sr IP-base Applicat DOS/DI Port cor DHCP S SMTP C Modbus Network Redundancy O-Ring Open-R O-Chain MRP MSTP (F RS-232 Serial Console Port RS-232 LED Indicators Power Indicator (PWR) Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green I	02.1Q) to segregate and secure netwo	rk traffic			
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Software Features Software Features Software Features Software Features Possible 1 Possible 2 Applicat DOS/DE Port cor DHCP S SMTP C Modbus O-Ring Open-R O-Chain MRP MSTP (F RS-232 Serial Console Port RS-232 LED Indicators Power Indicator (PWR) Green: Green: O-Ring Master Indicator (R.M.) Green: Green: Green: Fault Indicator (Fault) Amber: 10/100/1000Base-T(X) RJ45 Port Green for Indicator PoE Indicator Green L	Redundant Ring (O-Ring) with recovery time less than 30ms over 250 units				
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Network Redundancy O-Ring Open-R O-Chain MRP MSTP (F RS-232 Serial Console Port RS-232 LED Indicators Power Indicator (PWR) Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green L Green L Green L Green L	Port configuration, status, statistics, monitoring, security				
Network Redundancy Network Redundancy O-Ring Open-R O-Chain MRP MSTP (F RS-232 Serial Console Port RS-232 LED Indicators Power Indicator (PWR) Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green L	rver/Client/Relay				
Network Redundancy O-Ring Open-R O-Chain MRP MSTP (R RS-232 Serial Console Port RS-232 LED Indicators Power Indicator (PWR) Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Green findicator Dual col PoE Indicator Green L	ent				
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Power Indicator (PWR) Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green E Green :	n RJ45 connector with console cable.	115200bps, 8, N, 1			
Power Indicator (PWR) Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Indicator PoE Indicator Green E Green :					
Ring Master Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Green Fundicator PoE Indicator Green L					
O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) PoE Indicator Green: Green: Green: Green: Green: Green E Green E Green E Green E Green E	Power LED x 3				
O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) PoE Indicator Green: Green: Green: Green: Green: Green E Green E Green E Green E Green E	Indicates that the system is operating i	n O-Ring Master mode			
Fault Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Green Fault Indicator PoE Indicator Green L					
Fault Indicator (Fault) 10/100/1000Base-T(X) RJ45 Port Green for Dual college PoE Indicator For Indicator Green L	Green: Indicates that the system operating in O-Ring mode				
10/100/1000Base-T(X) RJ45 Port Green for Indicator Dual collection Green L	inking: Indicates that the Ring is broke	en.			
IndicatorDual colPoE IndicatorGreen L	Indicate unexpected event occurred				
PoE Indicator Green L	r port Link/Act.				
	Dual color LED for speed indicator : Green (1000M) / Amber (100M) / Off-light (10M).				
	Green LED x 8				
Fault Contact					
Relay Relay or	tput to carry capacity of 1A at 24VDC				
Clock Synchronization					
Clock Synchronization					
IEEE 1588v2 Support	Supported	Unsupported			
Power		·			

Redundant Input power	Dual DC inputs. 50 block	Dual DC inputs. 50~57VDC on 6-pin terminal block Dual DC inputs. 12~57VDC on 6-pin terminal block		~57VDC on 6-pin terminal block
Power consumption (Typ.) (PoE output not included)	11 Watts	11 Watts	12 Watts	12 Watts
Overload current protection	Present		•	
Reverse Polarity Protection	Not Present			
Physical Characteristic				
Enclosure	IP-30	IP-30		
Dimension (W x D x H)	54.1(W)x106.1(D)	54.1(W)x106.1(D)x145.4(H) mm (2.13x4.18x5.72 inch.)		
Weight (g)	773 g	771 g	779 g	777 g
Environmental				
Storage Temperature	-40 to 85°C (-40 to	-40 to 85°C (-40 to 185°F)		
Operating Temperature	-40 to 70°C (-40 to	-40 to 70°C (-40 to 158°F)		
Operating Humidity	5% to 95% Non-co	5% to 95% Non-condensing		
Regulatory Approvals				
EMI	FCC Part 15, CISPF	R (EN55022) class A		
EMS	EN61000-4-2 (ESD EN61000-4-3 (RS) EN61000-4-4 (EFT EN61000-4-5 (Sun EN61000-4-6 (CS) EN61000-4-8, EN61000-4-11	, ,), ge),		
Shock	IEC60068-2-27			
Free Fall	IEC60068-2-32	IEC60068-2-32		
Vibration	IEC60068-2-6	IEC60068-2-6		
Safety	EN60950-1			
Warranty	5 years			

Ordering Information



Code Definition	10/100/1000Base-T(X) P.S.E. Port Number	Additional Port Number	IEEE 1588v2 function	Voltage supported type
Option	- 08 : 8 ports	- 0 : 0 port	- NP: unsupported IEEE 1588v2	- 24V: 24VDC power inputs supported

	Model Name	Description
	IGPS-9080	Industrial 8-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X)
(Preliminary)	(Preliminary)	P.S.E.
Available	IGPS-9080-NP	Industrial 8-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X)
Model (Preliminary)	P.S.E.	
	IGPS-9080-24V	Industrial 8-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X)
		P.S.E., 24VDC power inputs
	IGPS-9080-NP-24V	Industrial 8-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X)

P.S.E., 24VDC power inputs	
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Packing List

- IGPS-9080 series x 1
- ORing Tools 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