

## IGPS-9084GP-L

Industrial 12-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X)

P.S.E. ports and 4x100/1000Base-X, SFP socket, Lite version

# Fe

#### **Features**

- Support O-Ring (recovery time < 20ms 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
- Support standard IEC 62439-2 MRP\*NOTE (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
- Support IEEE 802.3az Energy-Efficient Ethernet technology
- 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
- 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 ROHS



- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled













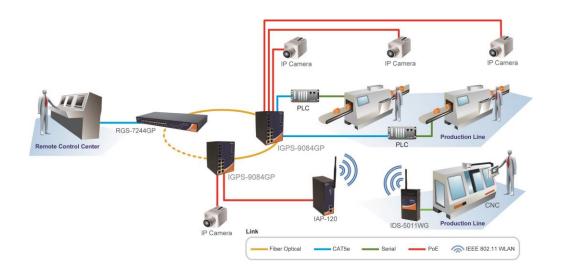




IGPS-9084GP-L is managed redundant ring PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. ports and 4x100/1000Base-X SFP ports. The switch support Ethernet Redundancy protocol, **O-Ring** (recovery time < 20ms over 250 units of connection) and MSTP (RSTP/STP compatible) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. IGPS-9084GP-L 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-9084GP 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-L 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 20 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\*NOTE: 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.
- <u>Application-Based QoS</u>: 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.
- **IEEE 802.3az Energy-Efficient Ethernet :** 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.

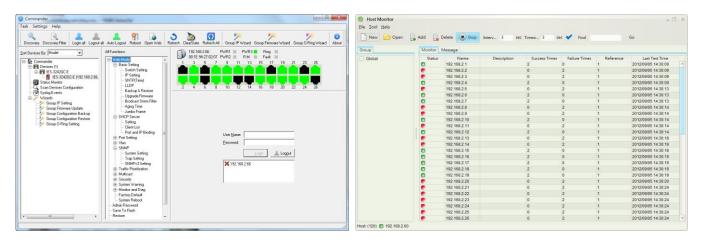


### **Open-Vision**

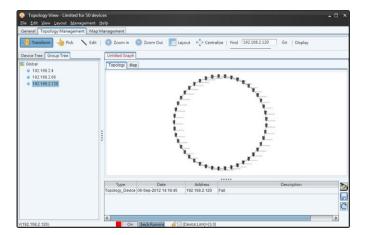
**Dimension** 

Unit =mm

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

# 96.4 70.5 15.0 10.9 Ording Ordina O

#### **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-	

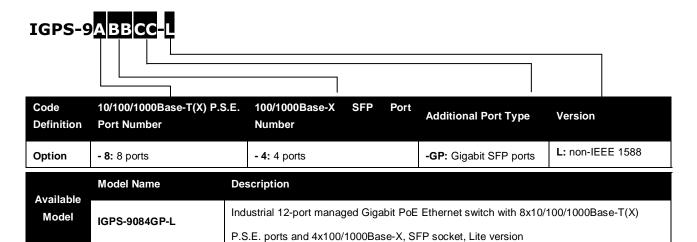
# Specifications

ORing Switch Model	IGPS-9084GP-L
Physical Ports	
10/100/1000Base-T(X) with P.S.E.	8
Ports in RJ45 Auto MDI/MDIX	•
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
	IEEE 802.3ad for LACP (Link Aggregation Control Protocol )
Ethernet Standards	IEEE 802.1p for COS (Class of Service)
Ethernet Standards	IEEE 802.1Q for VLAN Tagging
	IEEE 802.1D for STP (Spanning Tree Protocol)
	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 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
PoE Power Supply Type	Endspan mode
PoE Power Output	Per port 56V DC, 350mA. Max. 15.4 watts (IEEE 802.3af),
	Per Port 56V DC, 590mA. Max. 30 watts (IEEE 802.3at)

Printry Course   Processing   Store-and-forward	MAC Table	8k
Share Data Buffer  Switching Meterory: 7 vs VAAN ID Range; 1 vb D os 4095 Indef multicast groups: 256 for each VIAN Port rate Initialize; 1 vb D os 4095 Indef multicast groups: 256 for each VIAN Port rate Initialize; 1 vb D os 4095 Indef multicast groups: 256 for each VIAN Port rate Initialize; 1 vb D os 4095 Indef multicast groups: 256 for each VIAN Port Sale groups: 256 for each VIAN Redundant Initia (CR): 1 vs. 1 v	Priority Queues	8
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Switch Properties  Max. Number of valiable V.NAN 10 Range : VID 0 to 4995 (IAM) 10 Range : VI		Switching latency: 7 us
Max. Number of Available V.ANS. 4096 V.AN ID Ranger V.DD to 4095 ToRM Princip Library 1/10 to 4095 Torm Library 1/10 t		-
VLAN ID Range : VID 0 to 4095		
Jumbo frame  Jumbo frame  Up to 9.6K Pytes  Device Binding security feature  Enable/disable ports, McD based port security Port based indivors' access control (802.1s)  VLM (802.12) to segregate and secure network traffic Reduc sectralized password management SMMP3 encrypt (Ese 802.10/W/s)  Redundant Ring (O-Ring) with recovery time less than 20ms over 250 units TOS/Differs vapported Quality of Service (802.1p) for real-time traffic VLM (802.1) your but have been present Software Features  Network Redundancy  Network Redundancy  Software Features  Network Redundancy  Software Features  Software	Switch Properties	
Port rate limiting: User Define		
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Security Features  VLAN (802.10) Its segregate and secure network traffic Radius centralized password management SNNP-3 encrypted authentication and access security Https://SSH enhance network security  STP/RSTP/RSTP (IEEE 802.10) W/s Redundant Ring (0-Ring) with recovery time less than 20ms over 250 units TOS/DTRess supported Quality of Service (802.10) for real-time traffic VLAN (802.10) the real-time traffic VLAN (802.10) with VLAN tagging (NeW Snooping IP-based bondwidth management Application-based QOS management DOS/DOS abor prevention Port configuration, status, statistics, monitoring, security DHC Servicy(Inel/Relay SMTP Client Motivus TCP NTP server  O-Ring Open-Ring O-Chain MRP MSTP (RSTP/STP compatible)  RS-232 Servial Console Port  EDD Indicators  Power Indicator (PWR) Green : Power LED x 2  RS-232 Is R345 connector with console cable: 115200bps, 8, N, 1  EDD Indicators  Power Indicator (Ring) Green : Indicates that the system is operating in O-Ring Master mode  Green Blinking : Indicates that the system operating in O-Ring mode Green Blinking : Indicates that the Ring is broken.  Amber : Indicates that the system operating in O-Ring mode Green Blinking : Indicates that the system operating in O-Ring mode Green Blinking : Indicates that the Ring is broken.  Fault Indicator (Ring)  O-Ring Indicator (Ring)  Creen : Indicates that the system operating in O-Ring mode Green Blinking : Indicates that the Ring is broken.  Fault contact  Relay  Relay output to carry capacity of IA at 24VDC  Reset Button  Creen : Poet enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of IA at 24VDC  Reset Button  Power consumption (Typ.)  12.2 Watts Poet Fower Budget  Overload current protection  Present		
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Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security DHCP Server/Client/Relay SMTP Client Modbus TCP NTP server  O-Ring Open-Ring Open-Ring Open-Ring Open-Ring Network Redundancy RS-232 Serial Console Port RS-232 Serial Console Port RS-232 Serial Console Port RS-232 in R145 connector with console cable. 115200bps, 8, N, 1  LED indicators  Power Indicator (PWR) Green : Power LED x 2  Ring Master Indicator (R.M.) Green : Indicates that the system is operating in O-Ring Master mode Green : Indicates that the system operating in O-Ring mode Green : Indicates that the Ring is broken.  Fault Indicator (Fault) Amber : Indicate unexpected event occurred  107.100/1000Base-T(X) R145 Port Indicator 109.11000Base-X SFP Port Indicator Green is PoE enabled LED x 8  Fault contact Relay Relay Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  C S sec: System reboot, > 5 sec: Factory default Power Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block Power consumption (Typ.) 13.2 Watts PoE Power Budget Overload current protection Present Reverse Polarity Protection Present		. 3
Port configuration, status, statistics, monitoring, security DHCP Server/Client/Relay SMTP Client Modbus TCP NTP server O-Ring Open-Ring MSTP (RSTP/STP compatible)  RS-232 Serial Console Port RS-232 Serial Console Port RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1  LED indicators  Power Indicator (PWR) Green : Power LED x 2  Ring Master Indicator (Rind) Green : Indicates that the system is operating in O-Ring Master mode Green Blinking : Indicates that the Ring is broken.  Fault Indicator (Fault) Amber : Indicates that the Ring is broken.  Fault Indicator (Fault) Amber : Indicates that the Ring is broken.  Fault Indicator (Fault) Coreen Fort Indicates that the Ring is broken.  Fort Indicator Green Fort Indicates that the Ring is broken.  Green Indicates that the Ring is broken.  Fault Contact Green Fort Indicator (Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator I00/1000Base-X SFP Port Indicator Green : PoE enabled LED x 8  Fault contact Relay Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button	Software Features	
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Network Redundancy  O-Ring Open-Ring MRP MSTP (RSTP/STP compatible)  RS-232 Serial Console Port RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1  LED Indicators  Power Indicator (PWR) Green : Power LED x 2  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 Green Blinking : Indicates that the Ring is broken.  Fault Indicator (Fault) Amber : Indicate unexpected event occurred  10/100/1000Base-T(X) RJ45 Port Indicator Dual color LED : Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  100/1000Base-X SFP Port Indicator Green : PoE enabled LED x 8  Fault contact  Relay Relay output to carry capacity of 1A at 24VDC  Reset Button  Power  Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block Power consumption (Typ.) 13.2 Watts PoE Power Budget Overload current protection Present  Reverse Polarity Protection Present		
Network Redundancy  Open-Ring O-Chain MRP MSTP (RSTP/STP compatible)  RS-232 Serial Console Port  RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1  LED indicators  Power Indicator (PWR)  Green: Power LED x 2  Ring Master Indicator (R.M.)  O-Ring Indicator (Ring)  Green: Indicates that the system is operating in O-Ring Master mode  Green Blinking: Indicates that the Ring is broken.  Fault Indicator (Fault)  Amber: Indicate unexpected event occurred  10/100/1008ase-T(X) RJ45 Port Indicator  10/100/1008ase-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Yower  Redundant Input power  Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Qverload current protection  Reverse Polarity Protection  Present		
Network Redundancy  Network Redundancy  NEP MRP MRP MRP MRP MRP RS-232 Serial Console Port  RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1  LED indicators  Power Indicator (PWR)  Green: Power LED x 2  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 Green Blinking: Indicates that the Ring is broken.  Fault Indicator (Fault)  Amber: Indicate unexpected event occurred  10/100/1000Base-T(X) RJ45 Port Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Button  Power  Redundant Input power  Dual DC inputs: 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Q-Chain  Reverse Polarity Protection  Present  Present		
MRP MSTP (RSTP/STP compatible)  RS-232 Serial Console Port RS-232 in R345 connector with console cable. 115200bps, 8, N, 1  LED indicators  Power Indicator (PWR) Green : Power LED x 2  Ring Master Indicator (R.M.) Green : Indicates that the system is operating in O-Ring Master mode Green Sliniking : Indicates that the Ring is broken.  Fault Indicator (Fault) Amber : Indicate unexpected event occurred  10/100/1000Base-T(X) R345 Port Indicator Indicator Green	Network Redundancy	· · · · ·
MSTP (RSTP/STP compatible)  RS-232 Serial Console Port  RS-232 In RJ45 connector with console cable. 115200bps, 8, N, 1  LED indicators  Power Indicator (PWR)  Green: Power LED x 2  Ring Master Indicator (R.M.)  O-Ring Master Indicator (Ring)  Green: Indicates that the system is operating in O-Ring Master mode  Green Blinking: Indicates that the system jeroken.  Fault Indicator (Ring)  Amber: Indicates that the Rystem operating in O-Ring mode Green Blinking: Indicates that the Rystem jeroken.  Fault Indicator (Fault)  10/100/1000Base-T(X) RJ45 Port Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power  Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Overload current protection  Present  Reverse Polarity Protection  Present	Network Reddinatiley	
Power Indicators  Power Indicator (PWR)  Green: Power LED x 2  Ring Master Indicator (R.M.)  Green: Indicates that the system is operating in O-Ring Master 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 Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Quellod current protection  Present  Reverse Polarity Protection  Present  Present		
Power Indicators  Power Indicator (PWR)  Green: Power LED x 2  Ring Master Indicator (R.M.)  Green: Indicates that the system is operating in O-Ring Master 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 Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Quellod current protection  Present  Reverse Polarity Protection  Present  Present	RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 115200bps. 8, N, 1
Power Indicator (PWR)  Green: Power LED x 2  Ring Master Indicator (R.M.)  Green: Indicates that the system is operating in O-Ring Master 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) R145 Port Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Power  Redundant Input power  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Quellod current protection  Present  Reverse Polarity Protection  Present  Present	LED in disasters	1177
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 Green Blinking: Indicates that the Ring is broken.  Fault Indicator (Fault) Amber: Indicate unexpected event occurred  10/100/1000Base-T(X) RJ45 Port Indicator Dual color LED: Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  100/1000Base-X SFP Port Indicator Green: PoE enabled LED x 8  Fault contact Relay Relay output to carry capacity of 1A at 24VDC  Reset Function Reset Button  - 5 sec: System reboot, > 5 sec: Factory default  Power Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block Power consumption (Typ.) 13.2 Watts PoE Power Budget Overload current protection Present Reverse Polarity Protection Present	LED Indicators	
O-Ring Indicator (Ring)  Green: Indicates that the system operating in O-Ring mode Green Blinking: Indicates that the Ring is broken.  Fault Indicator (Fault)  Amber: Indicate unexpected event occurred  10/100/1000Base-T(X) R345 Port Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Power  Redundant Input power  Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Overload current protection  Present  Reverse Polarity Protection  Present	Power Indicator (PWR)	Green: Power LED x 2
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 Indicator Dual color LED: Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  100/1000Base-X SFP Port Indicator Green : PoE enabled LED x 8  Fault contact Relay Relay output to carry capacity of 1A at 24VDC  Reset Function Reset Button  Power Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block Power consumption (Typ.) 13.2 Watts PoE Power Budget Overload current protection Present Reverse Polarity Protection Present	Ring Master Indicator (R.M.)	Green: Indicates that the system is operating in O-Ring Master 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 Indicator Dual color LED: Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  100/1000Base-X SFP Port Indicator Green : PoE enabled LED x 8  Fault contact Relay Relay output to carry capacity of 1A at 24VDC  Reset Function Reset Button  Power Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block Power consumption (Typ.) 13.2 Watts PoE Power Budget Overload current protection Present Reverse Polarity Protection Present		Green : Indicates that the system operating in O-Ring mode
Fault Indicator (Fault)  10/100/1000Base-T(X) RJ45 Port Indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Relay  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Power  Redundant Input power  Redundant Input power  Power Consumption (Typ.)  13.2 Watts  Poen Holicator  Present  Reverse Polarity Protection  Present  Amber : Indicate unexpected event occurred  Dual color LED : Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator.  But Indicator.  Amber for 10/100Mbps Link/Act indicator.  But Indicator.  Amber for 10/100Mbps Link/Act indicator.  But Indicator	O-Ring Indicator (Ring)	, , ,
10/100/1000Base-T(X) RJ45 Port Indicator  100/1000Base-X SFP Port Indicator  PoE Indicator  Green for port Link/Act.  Green : PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Power  Redundant Input power  Redundant Input power  Power consumption (Typ.)  13.2 Watts  Poent  Reverse Polarity Protection  Present  Dual color LED : Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator.  Amber for 10/100Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator.  Amber for 10/10	Fault Indicator (Fault)	
Indicator  Dual color LED: Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator  100/1000Base-X SFP Port Indicator  Green for port Link/Act.  PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Power  Redundant Input power  Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Overload current protection  Present  Reverse Polarity Protection  Present	` '	The state of the s
PoE Indicator  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button  Power  Redundant Input power  Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  240W  Overload current protection  Reverse Polarity Protection  Present  Green: PoE enabled LED x 8  Fault contact  Relay  Relay output to carry capacity of 1A at 24VDC  Factory default  1A at 24VDC  1A at 24VDC  Factory default  Power Factory default  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  Present		Dual color LED : Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator
Fault contact  Relay Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	100/1000Base-X SFP Port Indicator	Green for port Link/Act.
Relay Relay output to carry capacity of 1A at 24VDC  Reset Function  Reset Button < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	PoE Indicator	Green : PoE enabled LED x 8
Reset Function  Reset Button < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	Fault contact	
Reset Button < 5 sec: System reboot, > 5 sec: Factory default  Power  Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	Relay	Relay output to carry capacity of 1A at 24VDC
Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	Reset Function	
Redundant Input power Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	Reset Button	< 5 sec: System reboot, > 5 sec: Factory default
Redundant Input power  Dual DC inputs. 50~57VDC on 6-pin terminal block  Power consumption (Typ.)  13.2 Watts  PoE Power Budget  240W  Overload current protection  Present  Reverse Polarity Protection  Present		
Power consumption (Typ.) 13.2 Watts  PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present		Dual DC inpute E0. E7VDC on 6 pin torreinal block
PoE Power Budget 240W  Overload current protection Present  Reverse Polarity Protection Present	· · ·	
Overload current protection Present  Reverse Polarity Protection Present		
Reverse Polarity Protection Present	-	
·	·	
Physical Characteristic	·	Present
	Physical Characteristic	

Enclosure	IP-30
Dimension (W x D x H)	96.4 (W) x 105.5 (D) x 154 (H) mm (3.8 x 4.15 x 6.06 inches)
Weight (g)	1205 g
	1203 g
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	EN 55032, EN 55024, FCC Part 15B, EN 61000-3-2, EN 61000-3-3
EMI	FCC Part 15 Class A, CISPR 32, EN55032
	EN61000-4-2 (ESD)
	EN61000-4-3 (RS),
	EN61000-4-4 (EFT)
EMS	EN61000-4-5 (Surge),
	EN61000-4-6 (CS),
	EN61000-4-8,
	EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
MTBF	670898hrs
Warranty	5 years

#### Ordering Information



#### Packing List

- IGPS-9084GP-L 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
- . . .
- SFP100 series: 100Mbps SFP optical transceiver
- Management Windows Utility Suit, 500 IP devices
- SFP 1G series : 1Gbps SFP optical transceiver

DBU-01 : backup unit device