CPGS-9120-M12-C



3U CompactPCI EN50155 12-port managed Gigabit Ethernet
 switch with 8x10/100/1000Base-T(X) in CompactPCI sockets, and 4x10/100/1000Base-T(X) in M12 connector

Features

- Leading EN50155 compliant Ethernet switch for rolling stock application
- Supports 3U and 8HP CompactPCI form factor and hot swapping
- PICMG 2.0 specification compatible
- Support 8x10/100/1000Base-T(X) ports on CompactPCI sockets and 4x10/100/1000Base-T(X) M12 connector ports
- Support Jumbo frame up to 9.6K Bytes
- Supports **O-Ring** (recovery time < 30ms over 250 units of connection), MSTP/RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- **Open-Ring** support the other vendor's ring technology in open architecture
- **0-Chain** allow multiple redundant network rings
- Support standard IEC 62439-2 MRP*NOTE (Media Redundancy Protocol) function
- Supports 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
- Supports SMTP client
- Supports IP-based bandwidth management
- Supports application-based QoS management
- Supports Device Binding security function
- Supports DOS/DDOS auto prevention
- Supports SSH/Https security function
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Supports SNMP v1/v2c/v3, RMON and 802.1Q VLAN Network Management
- Support ACL, TACACS+ and 802.1x User Authentication for security
- M12 connectors to guarantee reliable operation against environmental disturbances
- Multiple notification for warning of unexpected event
- Windows utility (Open-Vision) support centralized management and configurable by Web-based interface, Telnet and Console (CLI)
- Support LLDP Protocol
- Support hot-swappable technology

















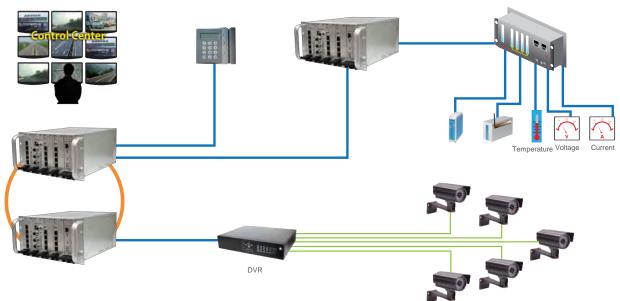


Introduction

ORing's CompactPCI series Ethernet switches are designed for industrial applications, such as factory automation, vehicle, and railway applications. CPGS-9120-M12-C is CompactPCI managed redundant ring Ethernet switch with 8x10/100/1000Base-T(X) ports in CompactPCI socket and 4x10/100/1000Base-T(X) M12 connector which is specifically designed for the toughest and fully compliant with EN50155 requirement. The switch support Ethernet Redundancy protocol, **0-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. CPGS-9120-M12-C Ethernet switch provided 4-port M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. CPGS-9120-M12-C supports wide operating temperature from -40 to 70°C which can fulfill most of the requirement of operation environment.

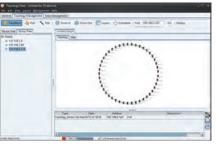
Except the Web-based interface, Telnet and console (CLI) configuration, CPGS-9120-M12-C can also be managed centralized and conveniently by Open-Vision. Therefore, the switch is one of the most reliable choices for rolling stock and highly-managed Ethernet application.

- **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*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.
- **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.
- **Device Binding Function**: 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

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 Momitor

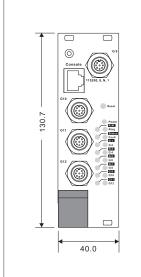
Topology View

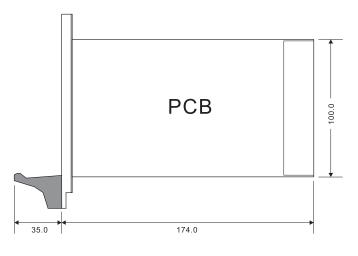
I/O Functional

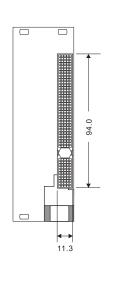


8-Port Gigabit I/O
Power input

Dimensions







(Unit=mm)

Console Port Pin DeFinition

PC (male) pin assignment	RS-232 with DB9 (female) pin assignment (RJ45 to DB9 cable)	RJ 45 pin assignment
Pin #2 RxD	Pin #2 TxD	Pin #2 TxD
Pin #3 TxD	Pin #3 RxD	Pin #3 RxD
Pin #5 GND	Pin #5 GND	Pin #5 GND

M12/8P Pin Definition





10/100Base-T(X)

PIN No.	Description
#6	TD+
#4	TD-
#5	RD+
#8	RD-

1000Base-T

PIN No.	Description
#1	BI_CD+
#2	BI_DD+
#3	BI_DD-
#4	BI_DA-
#5	BI_DB+
#6	BI_DA+
#7	BI_DC-
#8	BI DB-

Backplane Pin Definition

Pin

25	GND	5V			3.3V	5V	GND	
24	GND		5V				GND	
23	GND	3.3V			5V		GND	
22	GND		GND	3.3V			GND	
21	GND	3.3V			GND		GND	
20	GND		GND				GND	
19	GND	3.3V			GND		GND	
18	GND		GND	3.3V			GND	
17	GND	3.3V			GND		GND	
16	GND		GND				GND	
15	GND	3.3V			GND		GND	
14								11
13				KEY ARE	A			J1
12								
11	GND				GND		GND	
10	GND		GND	3.3V			GND	
9	GND				GND		GND	
8	GND		GND				GND	
7	GND				GND		GND	
6	GND		GND	3.3V			GND	
5	GND				GND		GND	

4	GND		HEALTHY#				GND	
3	GND				5V		GND	
2	GND		5V				GND	
1	GND	5V	-12V		+12V	5V	GND	
Pin	z	A	В	С	D	E	F	
22	GND		STxD	GND		SRxD	GND	
21	GND			GND			GND	
20	GND	LED5_0	LED5_1	GND	LED7_0	LED7_1	GND	
19	GND	LED4_0	LED4_1	GND	LED6_0	LED6_1	GND	
18	GND	LED1_0	LED1_1	GND	LED3_0	LED4_1	GND	
17	GND	LEDO_0	LEDO_1	GND	LED2_0	LED2_1	GND	
16	GND	P7_A_P	P7_A_N	GND	P7_C_P	P7_C_N	GND	
15	GND	P7_B_P	P7_B_N	GND	P7_D_P	P7_D_N	GND	
14	GND	P6_A_P	P6_A_N	GND	P6_C_P	P6_C_N	GND	
13	GND	P6_B_P	P6_B_N	GND	P6_D_P	P6_D_N	GND	
12	GND	P5_A_P	P5_A_N	GND	P5_C_P	P5_C_N	GND	J2
11	GND	P5_B_P	P5_B_N	GND	P5_D_P	P5_D_N	GND	JZ
10	GND	P4_A_P	P4_A_N	GND	P4_C_P	P4_C_N	GND	
9	GND	P4_B_P	P4_B_N	GND	P4_D_P	P4_D_N	GND	
8	GND	P3_A_P	P3_A_N	GND	P3_C_P	P3_C_N	GND	
7	GND	P3_B_P	P3_B_N	GND	P3_D_P	P3_D_N	GND	
6	GND	P2_A_P	P2_A_N	GND	P2_C_P	P2_C_N	GND	
5	GND	P2_B_P	P2_B_N	GND	P2_D_P	P2_D_N	GND	
4	GND	P1_A_P	P1_A_N	GND	P1_C_P	P1_C_N	GND	
3	GND	P1_B_P	P1_B_N	GND	P1_D_P	P1_D_N	GND	
2	GND	P0_A_P	PO_A_N	GND	P0_C_P	P0_C_N	GND	
1	GND	P0_B_P	P0_B_N	GND	P0_D_P	P0_D_N	GND	
Pin	Z	A	В	С	D	E	F	

Specifications

ORing Switch Model	CPGS-9120-M12-C
Physical Ports	
10/100/1000Base-T(X) Ports Auto MDI/MDIX	12-port (8-port with CompactPCI interface, 4-port with M12 A-coding connector) (PICMG 2.0 compatible)
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3a for 100Base-TX IEEE 802.3x for Flow control IEEE 802.3x for Flow control IEEE 802.3x for Flow control IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.10 for VLAN Tagging IEEE 802.1w for RSTP (Ragnid Spanning Tree Protocol) IEEE 802.1x for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)

MACTable	8K
Priority Queues	8
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 24Gbps Max. Number of Available VLANs: 4095 IGMP multicast groups: 256 for each VLAN Port rate limiting: User Define
Jumbo frame	Up to 9.6K Bytes
Security Features	Device Binding security feature Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.10) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security Https / SSH enhance network security
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (0-Ring) with recovery time less than 30ms over 250 units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging IGMP Snooping IP-based bandwidth management Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security DHCP Server/Client/Relay SMTP Client Modbus TCP
Network Redundancy	O-Ring Open-Ring O-Chain MRP*NOTE MSTP (STP / RSTP compatible)
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1
LED Indicators	
Power Indicator (Power)	Green: Power LED x 1
Status Indicator (STA)	Green: Ethernet status indicator
Status Indicator (STA) R.M. Indicator (R.M.)	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring)	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault)	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode Amber : Indicate unexpected event occurred
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring)	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode Amber : Indicate unexpected event occurred Green for port Link/Act.
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.)	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode Amber : Indicate unexpected event occurred
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection	Green : Ethernet status indicator Green : indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode Amber : Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC)
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H)	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch)
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g)	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present
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Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g) Environmental Storage Temperature	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch) 340g -40 to 85°C (-40 to 185°F)
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Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g) Environmental Storage Temperature	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch) 340g -40 to 85°C (-40 to 185°F)
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Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch) 340g -40 to 85°C (-40 to 185°F) -40 to 70°C (-40 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8,
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS	Green: Ethernet status indicator Green: indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch) 340g -40 to 85°C (-40 to 185°F) -40 to 70°C (-40 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS Shock Free Fall Vibration	Green : Ethernet status indicator Green : Indicate system operated in O-Ring Master mode Green : Indicate system operated in O-Ring mode Amber : Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch) 340g -40 to 85°C (-40 to 185°F) -40 to 70°C (-40 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 IEC60068-2-27 IEC60068-2-32 IEC60068-2-6
Status Indicator (STA) R.M. Indicator (R.M.) O-Ring Indicator (Ring) Fault Indicator (Fault) 10/100/1000Base-T(X) port indicator Power Power Input Power Consumption (Typ.) Overload Current Protection Physical Characteristics Dimension (W x D x H) Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS Shock Free Fall	Green: Ethernet status indicator Green: Indicate system operated in O-Ring Master mode Green: Indicate system operated in O-Ring mode Amber: Indicate unexpected event occurred Green for port Link/Act. CompactPCI bus powered (12VDC) 7.5 Watts Present 40 (W) x 209 (D) x 130.7 (H)mm (1.58 x 8.23 x 5.15 inch) 340g -40 to 85°C (-40 to 185°F) -40 to 70°C (-40 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 IEC60068-2-27 IEC60068-2-32

Ordering Information

CPGS-9 AAB- M12-C

Code Definition	10/100Base-T(X) Port Number	Additional Port Number	CompactPCI Version	
Option	- 12: 12 ports	- 0: 0 ports	- C: PICMG 2.0 specification	

Available	Model Name	Description
Model CPGS-9120-M12-C		3U CompactPCI EN50155 12-port managed Gigabit Ethernet switch with 8x10/100/1000Base-T(X) in CompactPCI sockets, and 4x10/100/1000Base-T(X) in M12 connector
Packing List		Optional Accessories (Can be purchased separately) • Open-Vision M500, Powerful network management windows Utility Suite, 500 IP devices