

Quick Installation Guide

Introduction

IES-A3162GC is managed Redundant Ring Ethernet switch with 16x10/100Base-T(X) ports and 2xgigabit combo ports which is specifically designed for the C1D2/ATEX certified with hazardous locations requirement. With completely support of Ethernet Redundancy protocol, O-Ring (recovery time < 10ms over 250 units of connection), Open-Ring, O-Chain, MRP and MSTP/RSTP:2004/STP (IEEE 802.1s/w/D) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. Another Open-Ring technology is also supported which can applied for other vendor's proprietary ring. 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. All function of IES-A3162GC can be managed centralized and convenient by a powerful windows utility: Open-Vision. In addition, the wide operating temperature range from -40 to 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choice for highly-managed and Fiber Ethernet in hazardous location application.

Features

- > C1D2 and ATEX compliant for harsh industrial environments application
- > World's fastest Redundant Ethernet Ring: O-Ring (recovery time < 10ms over 250 units of connection)
- Den-Ring support the other vendor's ring technology in open architecture
- > O-Chain allow multiple redundant network rings
- > Support standard IEC 62439-2 MRP (Media Redundancy Protocol) function
- > STP/RSTP:2004/MSTP supported
- > Supports Ipv6 new internet protocol version
- > Supports Auto Negotiation Speed
- > Support PTP Client (Precision Time Protocol) clock synchronization
- Provided HTTPS/SSH protocol for enhance network
- > IGMP v2/v3 (IGMP snooping for support) filtering multicast traffic
- > Port Trunking for easy of bandwidth management
- > SNMP V1/V2c/V3 support for secured network management
- > RMON for traffic monitoring
- > Support LLDP protocol
- > Support TACACS+ and 802.1x User Authentication for security
- > Event notification through Syslog, Email, SNMP trap, and Relay Output
- > Port lock to prevent access from unauthorized MAC address
- Windows utility (Open-Vision) support centralized management and configurable by Web-based ,Telnet, Console, CLI
- > Support two Gigabit combo ports
- > Rigid IP-30 housing design
- > DIN-Rail and wall mounting enabled

Specifications

ORing Switch Model	IES-A3162GC
Physical Ports	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	16
Gigabit combo Ports with 10/100/100Base-T(X) and 100/1000Base-X SFP port	2
100/1000Base-X SFP port Technology	

IES-A3162GC

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Mac Table ### And Ta	Ethernet Standards	IEEE 802.3 for 1000Base-X, IEEE 802.3 ab for 1000Base-T, IEEE 802.3 ab for 1000Base-T, IEEE 802.3 ab for 1000Base-T, IEEE 802.3 for Flow control (Fig. 100 for STP (Fig. 100 f	
Princessing Store- and-Forward Service Ministerine Y 19 Service Mark Material Control Contr	MAC Table		
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Switch Properties Switch Proper			
Switch Proporties Security Proporties Res. International Consistence of Available Valley, 4096 Res. Part Falle Initiality (User Define Embardscales) ports, Most Desire Office of Consistence of Consi	Processing		
Security Features Port Date de Network access control (60.21.2) VLA (60.21.4) in Support and evecure retention (1987) Radius centralistes password management SRIPH-0 everyped authoritotion and access security SRIPH-0 everyped authoritotion and access security SRIPH port Date (60.21.2) (1987) SOFtware Features Port Configuration, status, statistics, monitoring, security SOFTWARE SOFtware Features SOFtware Features SOFtware Features Port Configuration, status, statistics, monitoring, security SOFTWARE SOFtware Features SOFtware Features Port Configuration, status, statistics, monitoring, security SOFTWARE	Switch Properties	Switch bandwidth: 7.2Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 1024	
Redundant (Po Ring) with recovery time less than 10ms over 250 units 105/children valporated in VAM (802.10) with VAM tagging and OVAP supported 10M (802.10) with VAM (802.10) with VAM tagging valor (10M (802.10) with VAM (802.	Security Features	Port based network access control (802.1x) VLAN (802.1g) to segregate and secure network traffic Supports Q-in-Q-VLAN for performance & security to expand the VLAN space Radius centralized password management	
Relay output for fault event alarming Syslog acreery client to record and view events Levent section support RS-212 Serial Console Port RS-2121 RS-212 Serial Console Port RS-2121 RS-212 RS-21	Software Features	Redundant Ring (O-Ring) with recovery time less than 10ms over 250 units TOS/Diffsers upported Quality of Service (802.1p) for real-time traffic LVAM (802.10) with VLAM tagging and GVRP supported LGMP Snooping for multicast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network Support PTP Client (Ppecision Time Protocol) clock synchronization DHCP Server Client support Port Trunk support Port Trunk support	
Network Redundancy Sy910g server / client to record and view events intoluce SMTP for event warming netification via email event selection support RS-232 Serial Console Pot RS-232 In R145 connector with console cable. Baud rate setting: 9600bps, 8, N, 1 LED Indicator For Reliable of Console Pot Reliable of Console Pot Reliable of Console Reliable of Console Reliable of Console Reliable of Console Reliable Reliable of Console Reliable Reliab	Network Redundancy	O-Ring, Open-Ring, O-RSTP, STP, RSTP:2004, MSTP	
Leb Indicators R.M. Indicator Green: Pleashing to indicate system operated in O-Ring Master mode O-Ring indicator Green: Indicate system operated in O-Ring Master mode Fault Indicator Amber: Indicate system operated in O-Ring mode 10/100 Base-T(X) RJ4S Port Indicator Green for port Link/Act. Amber for Duplex/Collision 10/100/1000Base-T(X) RJ4S Green for port Link/Act. Amber for 100Mbps indicator 100/1000Base-X/Fiber Port Indicator Green for port Link/Act. Amber for 100Mbps indicator Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC input 12-48VDC on 6-pin terminal block Power consumption (Typ.) 12 Watts Overload current protection Present Reverse polarity protection Present on terminal block Physical Characteristic Enclosure 12-90 Dimension (W x D x H) 96.4(W)x188.5(D)x154(H) mm (3.8x4.27x6.06 inch.) Weight (g) 120 og Engreenature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 85°C (-40 to 185°F) Operating Humidity 8	Network Redundancy	Syslog server / client to record and view events Include SMTP for event warning notification via email	
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10/100 Base-T(X) R145 Port	O-Ring indicator	Green: Indicate system operated in O-Ring mode	
Indicator	Fault Indicator	Amber: Indicate unexpected event occurred	
		Green for port Link/Act. Amber for Duplex/Collision	
Relay	10/100/1000Base-T(X) RJ45	Green for port Link/Act. Amber for 100Mbps indicator	
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	Vibration	IEC60068-2-6	

Industrial C1D2/ATEX Managed Ethernet Switch

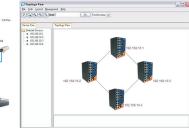
₽ Open-Vision

Oring's switches are intelligent switches. Different form 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.

Network connection

Topology View



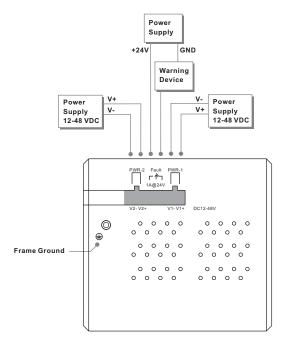


Monitoring and Configuration interface





Power Connection Guide



QIG IES-A3162GC

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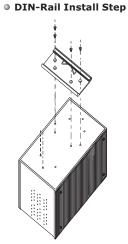


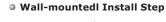
Quick Installation Guide

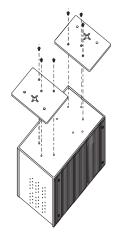
IES-A3162GC

Industrial C1D2/ATEX Managed Ethernet Switch

Installation







Accessory



1 6-Pin Terminal block



4 Flat Screw (M3 X5)



1000Base-T Ethernet Port Connection

■ RJ45 (8-pin, MDI) Port Pinouts

→ Communication Connections

• 10/100Base-T(X) Ethernet Port Connection



■ RJ45 (8-pin, MDI-X) Port Pinouts







2 Dust Cover (RJ-45)



©QIG

■ RJ45 (8-pin, MDI) Port Pinouts BI_DA+

Switch Port

Connector

RJ-45

Tx+

Tx-Rx+ Rx-

BI_DA-BI_DB+ BI_DB-BI_DD+

■ RJ45 (8-pin, MDI-X) Port Pinouts

MDI-X BI_DB+ BI_DB- BI_DD+ BI_DD- BI_DC+ BI_DC+ BI_DC-	1 8
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NIC Port

RJ-45

Rx+ Rx-Tx+ Tx-

Connector





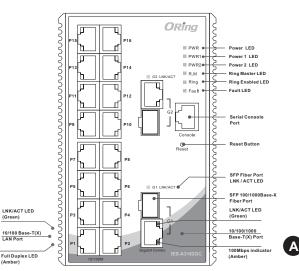




88mm DIN-Rail kit



Front Panel



Packing list

Model name	Front Panel	Model Description	Accessory
IES-A3162GC	A	Industrial C1D2/ATEX 18-port managed Ethernet switch with 16x10/100Base-T(X) and 2xGigabit combo ports, SFP socket	①X1, ②X18, ③X2, ④X6, ⑤X1, ③X1, ①X2, ⑤X1, ⑥X1

ORing

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Website: www.oring-networking.com

E-mail: support@oring-networking.com Address: 3F 542-2 Zhongzheng Road, Xindian District, New Taipei City 231 Taiwan

ı	Model name	Front Panel	Model Description	Accessory
	IES-A3162GC	A :	Industrial C1D2/ATEX 18-port managed Ethernet switch with 16x10/100Base-T(X) and 2xGigabit combo ports, SFP socket	①X1, ②X18, ③X2, ④X6, ⑤X1, ⑥X1, ⑦X2, ⑨X1, ⑥X1

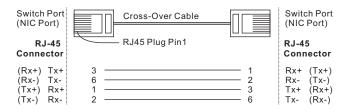
1	ORing	Model Name: IES-A3162GC
ORing	g Industrial Networking Corp. 2-2 Zhongzheng Road, Xindian ct, New Taipei City, 231 Taiwan	Default IP/Mask : 192.168.10.1/24 Default Account : admin Default Password : admin
SN:	013242000371	This device is compliance with part 15 of the FCC rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference. (2)This device must accept any interference received, including interference that may cause undesired
MAC	001E94720177	operation. FC

■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring

■ RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring

Straight-Through Cable

RJ45 Plug Pin1



• 100/1000Base-X SFP Port Connection

