

IGS-3044GP

>> Industrial 8-port Gigabit Managed Ethernet Switch

- Supports O-Ring (recovery time < 150ms over 250 units of connection), Open-Ring, O-RSTP, RSTP/STP (IEEE 802.1w/D) for Ethernet Redundancy
- Supports DDM (Digital Diagnostic Monitoring) function
- Supports SNMP v1/v2c/v3 & RMON & Port based/ 802.1Q VLAN Network Management
- Multiple notification for warning of excepted event
- Web-based ,Telnet, Console, CLI, and Windows utility (Open-Vision) configuration
- Support eight Gigabit port
- Dual Redundant DC power inputs
- Support LLDP Protocol



> Features

- World's fastest Redundant Ethernet Ring: O-Ring (recovery time < 150ms over 250 units of connection)
- Open-Ring support the other vendor's ring technology in open architecture
- O-RSTP support applications with complex topology
- STP/RSTP/MSTP supported
- IGMP snooping for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Supports DDM (Digital Diagnostic Monitoring) function
- 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
- Dual redundant DC power inputs of terminal block
- Support eight Gigabit port
- Very wide operating temperature range from -10 to 60°C
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

> Introduction

IGS-3044GP series are managed Redundant Ring Ethernet switches with 4x10/100/1000TX and 4x1000BaseX SFP ports. IGS-3044GP series can protect your mission-critical applications from network interruptions or temporary malfunctions with its ultra fast recovery technology. IGS-3044GP series also support functions of network management, such as SNMP, RMON and Port/Tag-based VLAN security. Therefore, the Switch series are the best choice for highly-managed and Fiber Ethernet application. IGS-3044GP series can be configured smartly by web browser, Telnet, CLI, and windows utility. Network administrators can determine to send event notifications through Syslog, Email, SNMP trap, or relay output, as well as segment ports into different VLANs, or filter multicast traffic by IGMP Snooping. To enhance the security, port access can be limited to pre-defined IP address table. Network determinism is answered by QoS for traffic prioritization. IGS-3044GP support new DDM (Digital Diagnostic Monitoring) function, which can monitor instantly the status of electronic voltage, current and temperature. The redundant DC power inputs guarantee a non-stop operation. The backup power input will take over immediately when the primary DC power input fails. IGS-3044GP series provide relay outputs that can be set up to indicate events with urgency to notify or warn the technicians, so they can quickly respond to the message in priority.

> Specifications

ORing Switch Model	IGS-3044GP
Physical Ports	
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	4
1000Base-X SFP ports	4
Technology	
Ethernet Standards	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T, IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
MAC Table	8192 MAC addresses
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 10Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 256 Port rate limiting: User Define
Security Features	Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security
Software Features	STP/RSTP (IEEE 802.1D/w) Redundant Ring (O-Ring) with recovery time less than 150ms over 250 units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP Snooping for multicast filtering Port configuration, status, statistics, monitoring, security
Network Redundancy	O-Ring Open-Ring O-RSTP STP RSTP MSTP
DDM Function	Voltage / Current / Temperature
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 9600bps, 8, N, 1
LED Indicators	
Power Indicator	Green : Power LED x 3
R.M. Indicator	Green : indicate system operated in O-Ring Master mode
Ring Indicator	Green : indicate system operated in O-Ring mode
Fault Indicator	Yellow : Indicate excepted event occurred
10/100TX RJ45 port Indicator	Green for port Link/Act. Yellow for Duplex/Collision
1000X / Fiber port Indicator	Green for port Link/Act. Yellow for Link
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC

Power	
Redundant Input Power	Dual DC inputs. 48VDC on 6-pin terminal block
Power Consumption (Typ.)	20 Watts
Overload Current Protection	Present
Reverse Polarity Protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	72(W)x106(D)x152(H) mm (2.83x4.17x5.98 inch)
Weight (g)	1100 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	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
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950
Warranty	5 years

> Ordering Information

IGS-3 **AA** **B** **CC**

Code efnition	10/100TX Port Number	Additional Port Number	Additional Port Type
Option	- 04: 4 ports	- 04: 4 ports	-GP: 1000 with SFP

Available Model	Model Name	Description
	IGS-3044GP	Industrial 8-port Gigabit Managed Ethernet Switch with 4x10/100/1000TX + 4x1000 SFP ports