# IES-3080/3062 Series



- Web-based, Telnet, Console, CLI, and Windows utility (Open-Vision)configuration
- Support IEEE 1588 PTP client
- Completely selection to support 10/100Base-T(X), 1000 Base-T, 100Base-FX, 1000Base-SX, 1000Base-LX ports
- Triple Redundant DC power inputs



- World's fastest Redundant Ethernet Ring : O-Ring (recovery time < 10ms over 250 units of connection)
- Open-Ring supports in open architecture (recovery time is depended on the other vendor's ring technology)
- O-RSTP supports applications of complex topology with optimized RSTP technology
- MSTP/RSTP/STP(IEEE 802.1s/w/D)
- Support IEEE 1588 PTP client
- IGMP snooping for filtering multicast traffic
- Port Trunking for easy bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring

 Event notification through Syslog, Email, SNMP trap, and Relay Output

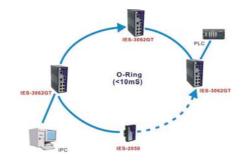
- Port lock to prevent access from unauthorized MAC address
- Windows utility (Open-Vision) supports centralized management and configuration by Web-based ,Telnet, Console, CLI
- Triple redundant DC power inputs of terminal block and power jack
- Complete combination of 10/100Base-T(X), 100Base-FX, 1000Base-T, 1000Base-SX, and 1000Base-LX ports
- Very wide operating temperature range from -40°C to 70°C
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

#### > Introduction

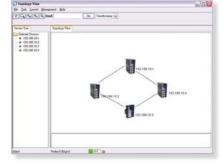
IES-3080/3062 series is managed Redundant Ring Ethernet switch with 6x10/100Base-T(X) & 2x100Base-FX, 1000Base-T, 1000Base-SX or 1000Base-LX ports. With complete support of Ethernet Redundancy protocol, O-Ring (recovery time < 10ms over 250 units of connection), Open-Ring, O-RSTP and MSTP/RSTP/STP (IEEE 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 also supports other vendor's proprietary ring. IES-3080/3062 series can be managed centralized and convenient by a powerful windows utility — Open-Vision. In addition, the wide operating temperature range from -40°C to 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for highly-managed and Fiber Ethernet application.

### > Open-Vision

ORing's switches are intelligent switches. Being different form other traditional redundant switches, ORing provide a set of Windows utility (**Open-Vision**) for users to manage and monitor all of industrial Ethernet switches on the industrial network.



Network connection



Company Overview

Key Technologies

New Products

Product Selection Guide

Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

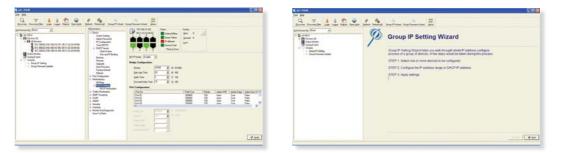
Industrial Wireless Solution

Industrial Serial Card

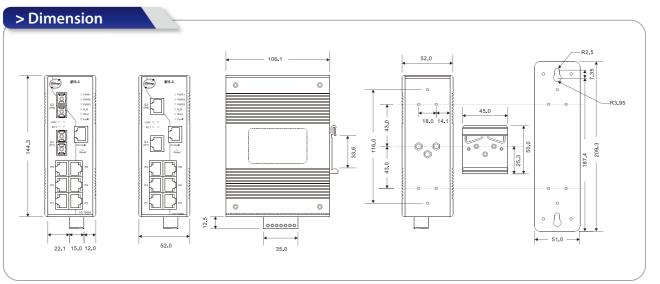
USB Server

Accessories

Topology View



Monitoring and Configuration interface



(Unit=mm)

## > Specifications

ORing Switch Model	IES-3080	IES-3062GT	IES-3062FX-MM	IES-3062FX-SS	IES-3062GF-MM	IES-3062GF-SS
Physical Ports						
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	8	6	6	6	6	6
1000Base-T Ports in RJ45 Auto MDI/MDIX		2				
100Base-FX Multi-mode ports (2KM, 1310nm, SC connector)			2			
100Base-FX Single-mode ports (30KM, 1310nm, SC connector)				2		
1000Base-SX Multi-mode ports (550M, 850nm, SC connector)					2	
1000Base-LX Single-mode ports (10KM, 1310nm, SC connector)						2
Technology						
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3a for 1000Base-T IEEE 802.3a for Flow control IEEE 802.3a 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 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1X for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol) IEEE 1588 for PTP (Precision Time Protocol)					
MAC Table	8192 MAC addr	esses				
Priority Queues	4					
Processing	Store-and-Forw	vard				
Switch Properties	Switching latency: 7 us Switching bandwidth: 5.6Gbps Max. Number of Available VLANs:4096 IGMP multicast groups: 1024 Port rate limiting: User Define					
Security Feature	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/MSTP (IEEE 802.1D/w/s) Redundant Ring (O-Ring) with recovery time less than 10ms 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					
RS-232 Serial Console Port	RS-232 in RJ45	connector with	console cable. Ba	ud rate setting:	9600bps, 8, N, 1	
LED Indicators						
Power Indicator	Green : Power L					
R.M. Indicator	Green : Flashing to indicate system operated in O-Ring Master mode					
O-Ring Indicator	Green : Indicate system operated in O-Ring mode					
Fault Indicator	Amber : Indicate unexpected events occurred					
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for Duplex/Collision					

1000 Base-T / Fiber Port Indicator	Green for port	Link/Act. Amber	for Link				
Fault contact	-						
Relay	Relay output to	Relay output to carry capacity of 1A at 24VDC					
Power							
Redundant Input Power	Triple DC input	Triple DC inputs. 12-48VDC on 7-pin terminal block, 12-45VDC on power jack					
Power Consumption (Typ.)	5 Watts	8 Watts	9 Watts	9 Watts	7 Watts	7 Watts	
Overload Current Protection	Present						
Reverse Polarity Protection	Present on terr	Present on terminal block					
Physical Characteristic							
Enclosure	IP-30						
Dimension (W x D x H)	52(W) x 106.1(I	52(W) x 106.1(D) x 144.3(H) mm (2.05x4.18x5.68 inch.)					
Weight (g)	710 g	722 g	735 g	735 g	740 g	740 g	
Environmental							
Storage Temperature	-40 to 85°C (-4	0 to 185°F)					
Operating Temperature	-40 to 70°C (-4	-40 to 70°C (-40 to 158°F)					
Operating Humidity	5% to 95% No	5% to 95% Non-condensing					
Regulatory approvals							
EMI	FCC Part 15, CI	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

Code Definition	10/100Base-T(X) Port Number	Additional Port Number	Additional Port Type	Fiber Optical Mode	Fiber Optical Connector			
Option	- <b>08:</b> 8 ports - <b>06:</b> 6 ports	- <b>0:</b> 0 port - <b>2:</b> 2 ports	- GT: 10/100/1000Base-T(X) - FX: 100Base-FX - GF: 1000Base-X	- <b>MM:</b> Multi-mode - <b>SS:</b> Single-mode	- SC: SC connector			

	Model Name	Description	Industrial Serial Card
Available Model	IES-3080	Industrial 8-port Managed Ethernet Switch with 8x10/100Base-T(X)	a =
	IES-3062GT	Industrial 8-port Managed Ethernet Switch with 6x10/100Base-T(X) & 2x10/100/1000Base-T(X)	USB
	IES-3062FX-MM-SC	Industrial 8-port Managed Ethernet Switch with 6x10/100Base-T(X) & 2x100FX (Multi-mode)	Server
	IES-3062FX-SS-SC	Industrial 8-port Managed Ethernet Switch with 6x10/100Base-T(X) & 2x100FX (Single-mode)	
	IES-3062GF-MM-SC	Industrial 8-port Managed Ethernet Switch with 6x10/100Base-T(X) & 2x1000SX (Multi-mode)	Accessorie
	IES-3062GF-SS-SC	Industrial 8-port Managed Ethernet Switch with 6x10/100Base-T(X) & 2x1000LX (Single-mode)	lies

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