IES-2060/2042FX

>> Industrial 6-port Lite-Managed Ethernet Switch

- Supports O-Ring (recovery time < 10ms over 250</p> units of connection), RSTP/STP (IEEE 802.1w/D) for Ethernet Redundancy
- Multiple notification for warning of unexpected events
- Web-based and Windows utility (Open-Vision) configuration
- Triple Redundant DC power inputs
- Supports 10/100 Base-T(X) and 100 Base-FX



> Features

- World's fastest Redundant Ethernet Ring: O-Ring (recovery time < 10ms over 250 units of connection)
- Multiple Redundant Ethernet technology RSTP/STP, O-Ring supports to protect your industrial network
- SNMP v1 support for secured network management
- Configuration by Web-based and Windows utility (Open-Vision)
- Triple redundant DC power inputs of terminal block and power jack

- Event notification through Syslog, Email, and SNMP trap.
- Two 100Base-FX fiber ports support for long distance connection
- Very wide operating temperature range from -40°C to 70°C
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

> Introduction

IES-2060/2042FX series is a lite-managed Redundant Ring Ethernet switch with 6x10/100Base-T(X) ports or 4x10/100Base-T(X) and 2x100Base-FX ports. With complete support of Ethernet Redundancy protocol, O-Ring (recovery time < 10ms over 250 units of connection) and RSTP/STP (IEEE 802.1w/D) can protect your missioncritical applications from network interruptions or temporary malfunctions with its fast recovery technology. IES-2060/2042FX 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 easy managed and Fiber Ethernet application.

Industrial Wireless Solution

Industrial Serial Card

USB Server

Accessories

Company Overview

Key Technologies

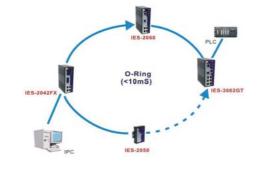
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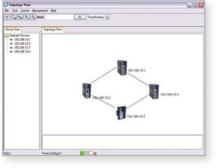
Product Selection Guide

Industrial Ethernet Switch

> Open-Vision

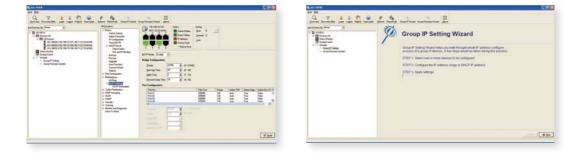
ORing's switches are intelligent switches. Being different from other traditional redundant switches, ORing provides a set of Windows utility (**Open-Vision**) for users to manage and monitor all of industrial Ethernet switches on the industrial network.



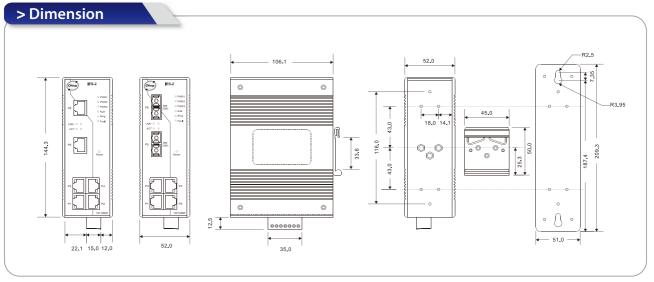


Network connection

Topology View



Monitoring and Configuration interface



(Unit=mm)

> Specifications

> Specifications				Company Overview
ORing Switch Model	IES-2060	IES-2042FX-MM	IES-2042FX-SS	view
Physical Ports				~
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	6	4	4	ey Tech
100Base-FX Multi-mode ports (2KM, 1310nm, SC connector)		2		Key Technologies
100Base-FX Single-mode ports (30KM, 1310nm, SC connector)			2	Z
Technology				lew P
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) and IEEE 802.3x for Flow control IEEE 802.1D for STP (Spanning T IEEE 802.1w for RSTP (Rapid Spa IEEE 802.1AB for LLDP (Link Laye	ree Protocol) nning Tree Protocol)		New Products Selection Guide
MAC Table	2048 MAC addresses			ion G
Priority Queues	4			tuide
Processing	Store-and-Forward			
Switch Properties	Switching bandwidth: 1.0Gbps VLAN: Port Based			Indu
Security Features	Enable/disable ports VLAN to segregate and secure r	network traffic		Industrial Ethernet Switch
Software Features	STP/RSTP (IEEE 802.1D/w) Redundant Ring (O-Ring) with recovery time less than 10ms over 250 units Port configuration, status, statistics, monitoring, security			
Network Redundancy	O-Ring STP RSTP			Industrial Media Converter
LED Indicators				
Power Indicator	Green : Power LED x 3			De _
R.M. Indicator	Green : Flashing to indicate syst	em operated in O-Ring Master m	node	Industrial Device Server
O-Ring Indicator	Green : Indicate system operate	d in O-Ring mode		Serve
Fault Indicator	Amber : Indicate expected events occurred			-
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for Link			<
1000 Base-T / Fiber Port Indicator	Green for port Link/Act. Amber	for Link		Virele
Fault contact				Industrial Wireless Solution
Relay	Relay output to carry capacity o	f 1A at 24VDC		ution
Power				
Redundant Input Power	Triple DC inputs. 12-48VDC on 7	-pin terminal block, 12-45VDC or	n power jack	
Power Consumption (Typ.)	5 W	7 W	7 W	Indu Seria
Overload Current Protection	Present			Industrial Serial Card
Reverse Polarity Protection	Present on terminal block			
Physical Characteristic				-
Enclosure	IP-30			SU
Dimension (W x D x H)	52(W) x 106.1(D) x 144.3(H) mm			USB Server
Weight (g)	657 g	670 g	670 g	Ver
Environmental				
Storage Temperature	-40 to 85°C (-40 to 185°F)			
Operating Temperature	-40 to 70°C (-40 to 158°F)			Acces
Operating Humidity	5% to 95% Non-condensing			Accessories

Regulatory approvals	tory 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

	Code Definition	10/100Base-T(X) Port Number	Additional Port Number	Additional Port Type	Fiber Optical Mode	Fiber Optical Connector
	Option	- 06: 6 ports - 04: 4 ports	- 0: 0 port - 2: 2 ports	- FX: 100FX	- MM: Multi-mode - SS: Single-mode	- SC: SC connector

	Model Name	Description
Available	IES-2060	Industrial 6-port Lite-Managed Ethernet Switch with 6x10/100Base-T(X)
Model	IES-2042FX-MM-SC	Industrial 6-port Lite-Managed Ethernet Switch with 4x10/100Base-T(X) & 2x100FX (Multi-mode)
	IES-2042FX-SS-SC	Industrial 6-port Lite-Managed Ethernet Switch with 4x10/100Base-T(X) & 2x100FX (Single-mode)