IES-2060/2042FX

>> Industrial 6-port Lite-Managed Ethernet Switch

- Supports O-Ring (recovery time < 10ms over 250 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 6x10/100TX ports or 4x10/100TX 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 mission-critical 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.

Company Overview

Key

Technologies

Products

Product Selection Guide

Industrial Ethernet Switch

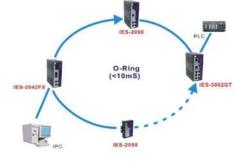
Industrial edia Converter

Industrial Device Server

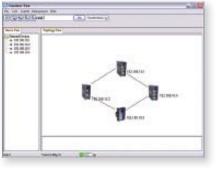
Industrial Wireless Solution

> Open-Vision

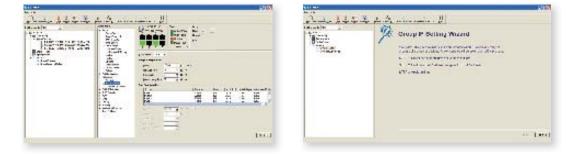
ORing's switches are intelligent switches. Being different from other traditional redundant switches, ORing provides a set of Windows utility (**Open-Vision**) for users to manage and monitor all of industrial Ethernet switches on the industrial network.



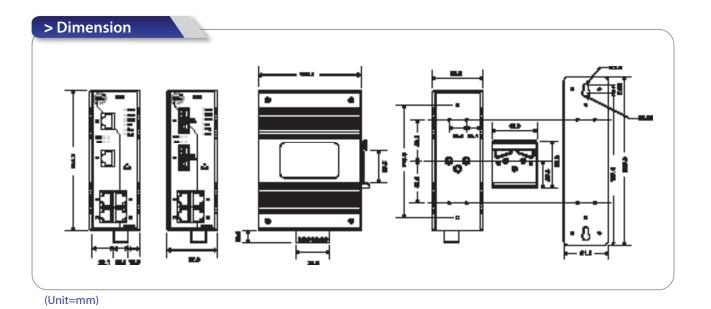




Topology View



Monitoring and Configuration interface



> Specifications

> Specifications						
ORing Switch Model	IES-2060	IES-2042FX-MM	IES-2042FX-SS			
hysical Ports						
0/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	6 4 4					
00Base-FX Multi-mode ports (2KM, 1310nm, SC connector)	2					
00Base-FX Single-mode ports 30KM, 1310nm, SC connector)			2			
echnology						
thernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) ar IEEE 802.3x for Flow control IEEE 802.1D for STP (Spanning IEEE 802.1w for RSTP (Rapid Sp IEEE 802.1AB for LLDP (Link Lay	Tree Protocol) anning Tree Protocol)				
AC Table	2048 MAC addresses					
Priority Queues	4					
Processing	Store-and-Forward					
witch Properties	Switching bandwidth: 1.0Gbps VLAN: Port Based					
ecurity Features	Enable/disable ports VLAN to segregate and secure network traffic					
oftware 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					
letwork Redundancy	O-Ring STP RSTP					
ED Indicators						
ower Indicator	Green : Power LED x 3					
.M. Indicator	Green : Flashing to indicate sys	stem operated in O-Ring Master m	ode			
D-Ring Indicator	Green : Indicate system operat	ed in O-Ring mode				
ault Indicator	Amber : Indicate expected eve	nts occurred				
0/100TX RJ45 Port Indicator	Green for port Link/Act. Ambe	er for Duplex/Collision				
000 Base-T / Fiber Port Indicator	Green for port Link/Act. Ambe	er for Link				
ault contact						
Relay	Relay output to carry capacity	of 1A at 24VDC				
Power						
Redundant Input Power		7-pin terminal block, 12-45VDC or				
ower Consumption (Typ.)	5 W	7 W	7 W			
Overload Current Protection	Present					
everse Polarity Protection	Present on terminal block					
hysical Characteristic	10.20					
nclosure	IP-30	- (2.05v410v5 (0.1v-h.)		н		
Dimension (W x D x H)	52(W) x 106.1(D) x 144.3(H) mm (2.05x4.18x5.68 inch.)					
Veight (g)	657 g	670 g	670 g			
invironmental	40 to 95% (40 to 105%)					
Storage Temperature	-40 to 85°C (-40 to 185°F)					
Operating Temperature Operating Humidity	-40 to 70°C (-40 to 158°F)			4		
	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

Code Definition	10/100TX 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

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