IPS-2042TX/2042FX

>> Industrial 6-port Lite-Managed PoE 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 excepted event
- Web-based and Windows utility (Open-Vision) configuration
- Triple Redundant DC power inputs
- 4 ports support PSE base on IEEE 802.3af standard up to 25 Watts per port
- Supports 10/100Base-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 supported
- SNMP v1 support for secured network management
- Configurable by Web-based and Windows utility (Open-Vision)
- Triple redundant DC power inputs of terminal block and power jack

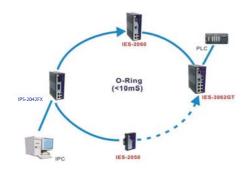
- Event notification through Syslog, Email, and SNMP trap.
- Two 100Base-FX fiber port support for long distance connection
- 4 ports support PSE based on IEEE 802.3af standard up to 25 Watts per port
- Very wide operating temperature range from -40°C to 70°C
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

> Introduction

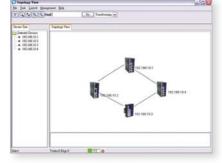
IPS-2042TX/2042FX series are lite-managed Redundant Ring Ethernet switches with 4x10/100Base-T(X) ports with PoE PSE function and 2x10/100Base-T(X) or 2x100Base-FX ports. IPS series support Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each IPS switch has 4X10/100Base-T(X) PSE (Power Sourcing Equipment) ports. PSE is a device (switch or hub for instance) that will provide power in a PoE setup. With completely 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. IPS-2042TX/2042FX can be managed centralized and convenient by a powerful windows utility — Open-Vision. 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 choice for easy managed and Fiber Ethernet application.

> Open-Vision

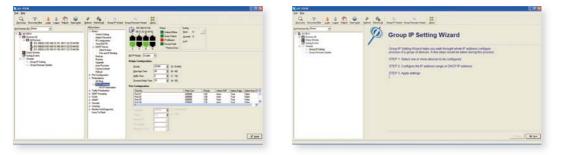
ORing's switches are intelligent switches. Being different from other traditional redundant switches, ORing provides a set of Windows utility (**Open-Vision**) for users to manage and monitor all of industrial Ethernet switches on the industrial network.



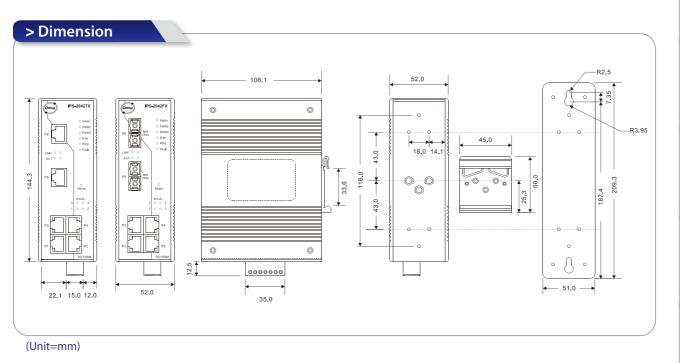
Network connection



Topology View



Monitoring and Configuration interface



Industrial Serial Card

USB Server

Accessories

Company Overview

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Key Technologies

New Products

Product Selection Guide

> Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

Industrial Wireless Solution

> Specifications

ORing Switch Model	IPS-2042TX	IPS-2042FX-MM	IPS-2042FX-SS	
Physical Ports				
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	4	4	4	
with PSE 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX		Т	-	
without PSE	2			
100Base-FX Multi-mode ports		2		
(2KM, 1310nm, SC connector) 100Base-FX Single-mode ports		-		
(30KM, 1310nm, SC connector)			2	
Technology				
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-T(X) and 100Base-FX, IEEE 802.3x for Flow control IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE802.1AB for LLDP (Link Layer Discovery Protocol) IEEE 802.3af PoE specification (up to 25 Watts per port for PSE)			
MAC Table	2048 MAC addresses			
Priority Queues	4			
Processing	Store-and-Forward			
Switch Properties	Switching bandwidth: 1.0Gbps VLAN: Port Based			
Security Features	Enable/disable ports VLAN to segregate and secure network traffic			
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			
LED Indicators				
Power Indicator	Green : Power LED x 3, Green :	PoE LED x 4		
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 excepted event occurred			
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for Link			
Fiber Port Indicator	Green for port Link/Act. Amber for Link			
Fault contact				
Relay	Relay output to carry capacity	of 1A at 24VDC		
Power				
Redundant Input Power	Triple DC inputs. 2x48VDC on 7	-pin terminal block , 1x48VCD on	power jack	
Power Consumption (Typ.)	5 W	7 W	7 W	
Overload Current Protection	Present			
Reverse Polarity Protection	Present on terminal block			
Physical Characteristic				
Enclosure	IP-30			
Dimension (W x D x H)	52(W) x 106.1(D) x 144.3(H) mm (2.05x4.18x5.68 inch.)			
Weight (g)	696 g	709 g	709 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

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

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

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