3ISYS-ETHP-4C2F/6C

INDUSTRIAL 6-PORT LITE-MANAGED POE ETHERNET SWITCH

FEATURES

- 3ISYS-ETHP-6C provide 4x10/100Base-T(X) P.S.E. and 2x10/100Base-T(X) ports
- 3ISYS-ETHP-4C2 FX series provide 4x10/100Base-T(X) P.S.E. and 2x100Base-FX single/multi mode fiber ports
- World's fastest Redundant Ethernet Ring: Sys-Ring (Recovery time < 10ms over 250 units of connection)
- Uni-Ring support the other vendor's ring technology in open architecture
- Sys-Chain support the multiple redundant ring technology
- Provide Fast recovery technology for Ethernet multi-redundancy
- STP/RSTP supported
- SNMP v1/v2c/v3 support for secured network management
- Support LLDP (Link Layer Discovery Protocol)
- Configurable by Web-based and Windows utility (System-Vision)
- Event notification through Syslog, Email, and SNMP trap
- Two 100Base-FX fiber port support for long distance connection
- 4 ports support P.S.E. based on IEEE 802.3af standard up to 25 Watts per port
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled



















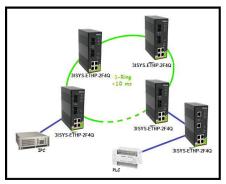
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PRODUCT OVERVIEW

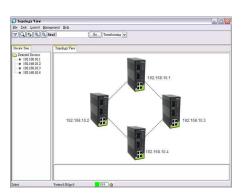
3ISYS-ETHP-6C/4C2F series are lite-managed redundant ring Ethernet switches with 2x10/100Base-T(X) or 2x100Base-FX fiber ports and 4x10/100Base-T(X) ports with PoE P.S.E. function. IPS series support Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each IPS switches has 4X10/100Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. With completely support of Ethernet Redundancy protocol, Sys-Ring (recovery time < 10ms over 250 units of connection), Uni-Ring, Sys-Chain and STP/RSTP (IEEE802.1w/D) technology. 3ISYS-ETHP-6C/4C2F series can be managed centralized and convenient by a powerful windows utility — System-Vision. The wide operating temperature range from -40oC to 70oC can satisfy most of operating environment. Therefore, the switch is one of the most reliable choice for easy managed and Fiber Ethernet application.

System-Vision

3ISYS's switches are intelligent switches. Being different form other traditional redundant switches, 3ISYS provides a set of Windows utility (System-Vision) for user to manage and monitor all of industrial Ethernet switches on the industrial network.

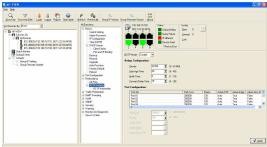


Network connection



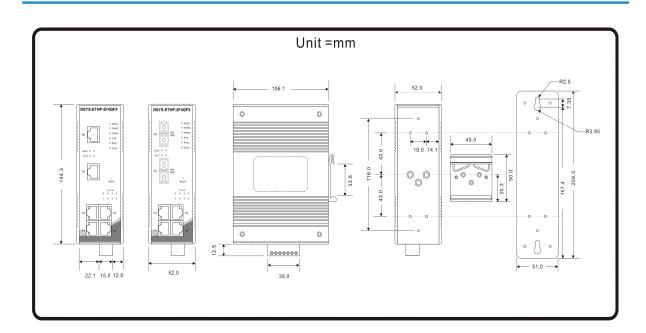
Topology View

Group IP Setting Wizard



Monitoring and Configuration

Dimension



RJ-45 Pin Definition		
Pin No.	Description	
#1	TD+	
#2	TD-	
#3	RD+	
#4	PoE power input +	
#5	PoE power input +	
#6	RD-	
#7	PoE power input -	
#8	PoE power input -	

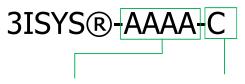
Specifications

3	BISYS Switch Model	3ISYS-ETHP-6C	3ISYS-ETHP-4C2F-M M-SC	3ISYS-ETHP-4C2F-S S-SC	
P	hysical Ports				
1	0/100 Base-T(X) Ports in				
R	J45	4	4	4	
Α	uto MDI/MDIX with	•		T	
P	.S.E.				
1	0/100 Base-T(X) Ports in				
RJ45		2			
Α	uto MDI/MDIX without	_			
P	.S.E.				
	Fiber Ports Number		2	2	
Ē	Fiber Ports Standard		100Base-FX	100Base-FX	
atic	Fiber Mode		Multi-mode	Single-mode	
Specification	Fiber Diameter (µm)		62.5/125 μm	9/125 μm	
Spe	riber blameter (pm)		50/125 μm	<i>3/123</i> μπ	
ts (Fiber Optical		SC	SC	
Ports	Connector			30	
Fiber	Typical Distance		2 Km	30 Km	
正	(Km)		2 1311		
	Wavelength (nm)		1310 nm	1310 nm	

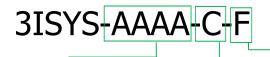
Max. Output Optical Power (dbm)		-14 dbm	-8 dbm	
Min. Output Optical Power (dbm)		-23.5 dbm -15 dbm		
Max. Input Optical Power (Saturation)		0 dbm	0 dbm	
Min. Input Optical Power (Sensitivity)		-31 dbm	-34 dbm	
Link Budget (db)		7.5 db	19 db	
Technology	Technology			
	§ IEEE 802.3 fo	r 10Base-T		
	§ IEEE 802.3u f	or 100Base-TX and 100Bas	se-FX	
	§ IEEE 802.3x f	or Flow control		
Ethernet Standards		for STP (Spanning Tree Pro	<i>'</i>	
	§ IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)			
	§ IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)			
	§ IEEE 802.3af PoE specification (up to 25 Watts per port for P.S.E.)			
MAC Table	1024 MAC addresses			
Priority Queues	4			
Processing				
Switch Properties	Switching bandwidth: 1.2Gbps VLAN: Port Based			
	Enable/disable ports			
Security Features	VLAN to segregate and secure network traffic			
	§ STP/RSTP (IEEE 802.1D/w)			
	§ Redundant Ring (Sys-Ring) with recovery time less than 10ms			
	over 250 units			
Software Features	S Uni-Ring support the other vendor's ring technology in open architecture			
	§ Port configuration, status, statistics, monitoring, security			
	§ DHCP Client			
	§ Sys-Ring			
Network Redundancy	§ Uni-Ring			
	§ Sys-Chain			
Activity Reduitedity	§ Fast recovery			
	§ STP			
	§ RSTP	§ RSTP		

LED indicators			
Power/PoE Indicator	Green: Power LED x 3. Green: PoE LED x 4		
R.M. Indicator	Green : Indicate system operated in Sys-Ring Master mode		
Sys-Ring Indicator	Green : Indicate syste	m operated in Sys-Ring m	ode
Fault Indicator	Amber : Indicate unex	pected event occurred	
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for Link		
Fiber Port Indicator	Green for port Link/Ac	t. 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, 1x48VDC on power jack		
Power Consumption (Typ.)	5 Watts	7 Watts	7 Watts
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 14	14.3(H) mm (2.05x4.18x5.	.68 inch.)
Weight (g)	696 g	709 g	709 g
Environmental			
Storage Temperature	-40 to 85°C (-40 to 18	5°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	EN60950-1		
MTBF	304,333 hours	292,6	73 hours
Warranty	1 year		

Ordering Information



Module Identifier	Number of 10/100Base-TX P.S.E Ports
Fast P.O.E Lite, ETHP	6



1

Module Identifier	Number of 10/1008 P.S.E Ports	Base-TX	Number of Fiber Ports
Fast P.O.E Lite, ETHP	4		2

Items Included

- 1 3ISYS-ETHP-6C/4C2F series x 1
- 1 3ISYS Tool CD x 1 Wall-mount Kit x 1
- 1 **Quick Installation** Guide x 1

Optional Accessories

- System-Vision M5C : Powerful Network Management Windows Utility Suit, 500 IP devices
- 3ISYS-PWR-482500, 48VDC/2500mA 120W Power Adapter with universal 100 to 240VAC input, US plug
- 3ISYS-PWR-75-48: 75 Watts DIN-Rail power supply
- 3ISYS-PWR-120-48: 120 Watts DIN-Rail power supply
- 3ISYS-PWR-482500, 48VDC/2500mA 120W Power Adapter with universal 100



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All specifications are subject to change without further notice. All features with * mark will be available by firmware upgrade.