3ISYS-ETHE-8C2FC-POE-24V

INDUSTRIAL 10-PORT MANAGED POE ETHERNET SWITCH WITH 2XGIGABIT COMBO PORTS, SFP SOCKET AND, 8X10/100BASE-T(X) **P.S.E. 24V POWER INPUTS**

FEATURES

- World's fastest Redundant Ethernet Ring: (recovery time <</p> 10ms over 250 units of connection)
- Uni-Ring support the other vendor's ring technology in open architecture
- Sys-Chain allow multiple redundant network rings
- Support standard IEC 62439-2 MRP (Media Redundancy) **Protocol**) function
- STP/RSTP/MSTP supported
- 8 ports P.S.E. fully compliant with IEEE802.3af standard. provide up to 15.4 Watts per port
- Provide PoE power on delay function, users can define delay time for PoE power supply
- Support dual wide range 24~36VDC power inputs for power redundancy
- Support PTP Client (Precision Time Protocol) clock
- Support Modbus/TCP protocol synchronization
- IGMP v2/v3 (IGMC snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Support LLDP (Link Layer Discovery Protocol)
- Supports DDM (Digital Diagnostic Monitoring) function
- Event notification through Syslog, Email, SNMP trap, and
- Relay Output
- Port lock to prevent access from unauthorized MAC
- address Windows utility (System-vision) support centralized
- management and configurable by Web-based ,Telnet, **Console (CLI)**

WARE UPGRADE.

Support two Gigabit combo ports

FC









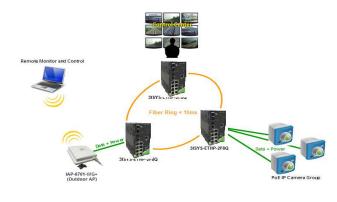
FURTHER NOTICE. ALL FEATURES WITH * MARK WILL BE AVAILABLE BY FIRM-

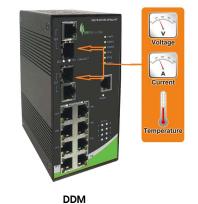




3ISYS-ETHE-8C2FC-24V is managed redundant ring Ethernet switch with $8 \times 10/100$ Base-T(X) ports with PoE (P.S.E.) function and 2xGigabit combo ports. With completely support of Ethernet redundancy protocol, Ring (recovery time < 10ms over 250 units of connection), Uni-Ring, Sys-Chain, MRP and MSTP/RSTP/STP (IEEE 802.1s/w/D) can protect your mission-critical applications from network interruptions or temporary malfunctions with its rapid recovery technology. Another Uni-Ring technology is also supported which can be applied for other vendor's proprietary ring. Sys-Chain is the revolutionary network redundancy technology that provides the add-on network redundancy topology for any backbone network, Sys-Chain allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology. Sys-Chain providing ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology.

3ISYS's switches are intelligent switches. Being different from 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.





Topology Yaw Image of the second second

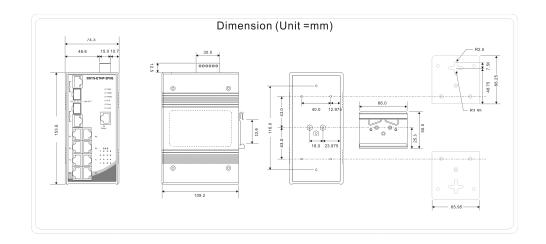
Topology View

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Kannor Samoly (and Lang) (and Lan	 All Super Aller Carrier of Handler	Andrew Control Co	ROS-72640P Industriel 20 soft rack mourt me	on	

Monitoring and Configuration interface

Network connection

Dimension



PoE Pin Definition

RJ-45 Pin Definition		
Pin No. Description		
#1	TD+ with PoE Power input +	
#2	TD- with PoE Power input +	
#3	RD+ with PoE Power input -	
#6	RD- with PoE Power input -	

3ISYS Switch Model	3ISYS-ETHE-8C2FC-24V	
Physical Ports		
Gigabit Combo Ports		
with		
10/100/1000Base-T(X)	2	
and 100/1000Base-X	_	
SFP port		
10/100 Base-T(X) Ports		
in RJ45	8	
Auto MDI/MDIX with		
P.S.E.		
Technology		
	S IEEE 802.3 for 10Base-T	
	S IEEE 802.3u for 100Base-TX and 100Base-FX	
	s IEEE 802.3z for 1000Base-X	
	§ IEEE 802.3ab for 1000Base-T	
	§ IEEE 802.3x for Flow control	
	S IEEE 802.3ad for LACP (Link Aggregation Control	
	Protocol)	
	S IEEE 802.1D for STP (Spanning Tree Protocol)	
	S IEEE 802.1p for COS (Class of Service)	
Ethernet Standards	S IEEE 802.1Q for VLAN Tagging	
	S IEEE 802.1w for RSTP (Rapid Spanning Tree	
	Protocol)	
	S IEEE 802.1s for MSTP (Multiple Spanning Tree	
	Protocol)	
	S IEEE 802.1x for Authentication	
	§ IEEE 802.1AB for LLDP (Link Layer Discovery Discovery)	
	Protocol)	
	S IEEE 802.3af PoE specification (up to 15.4 Watts	
MACTILL	per port for P.S.E.)	
MAC Table	8192 MAC addresses	
Priority Queues	4 Change and Forward	
Processing	Store-and-Forward	
	 Switching latency: 7 us Switching bandwidth: 5 6Cbpc 	
Switch Properties	 Switching bandwidth: 5.6Gbps Max. Number of Available VLANs: 4096 	
	§ IGMP multicast groups: 1024	

	Ş	Port rate limiting: User Define	
	Ş	Enable/disable ports, MAC based port security	
	Ş	Port based network access control (802.1x)	
	Ş	VLAN (802.1Q) to segregate and secure network	
		traffic	
Security Features	S	Supports Q-in-Q VLAN for performance & security	
		to expand the VLAN space	
	S	Radius centralized password management	
	Ş	SNMP v1/v2c/v3 encrypted authentication and	
		access security	
	Ş	STP/RSTP/MSTP (IEEE 802.1D/w/s)	
	Ş	Redundant Ring (3-Ring) with recovery time less	
		than 10ms over 250 units	
	S	TOS/Diffserv supported	
	S	Quality of Service (802.1p) for real-time traffic	
	Ş	VLAN (802.1Q) with VLAN tagging and GVRP	
		supported	
	Ş	IGMP Snooping for multicast filtering	
Software Features	Ş	Port configuration, status, statistics, monitoring,	
		security	
	Ş	SNTP for synchronizing of clocks over network	
	Ş	Support PTP Client (Precision Time Protocol)	
		clock synchronization	
	S	DHCP Server / Client support	
	S	Port Trunk support	
	S	MVR (Multicast VLAN Registration) support	
	Ş	Modbus TCP	
	Ş	3-Ring	
Natural Data dara	Ş	Uni-Ring	
Network Redundancy	Ş	Sys-Chain	
	S	MRP STP / RSTP / MSTP	
	S		
	S	Relay output for fault event alarming Syslog server / client to record and view events	
Warning / Monitoring	S S	Include SMTP for event warning notification via	
System	3	email	
	Ş	Event selection support	
DDM Function	Voltage / Curren		
RS-232 Serial Console			
Port	RS-232 in RJ45	connector with console cable. 9600bps, 8, N, 1	
LED indicators			

Power/PoE Indicator	Green : Power LED x 3, Green : PoE LED x 8		
3-Ring Indicator	Green : Indicate system operated in 3-Ring mode		
R.M. indicator	Green : Indicate system operated in 3-Ring Master mode		
Fault indicator	Amber : Indicate unexpected event occurred		
10/100Base-T(X) RJ45			
Port Indicator	Green for port Link/Act. Amber for Duplex/Collision		
10/100/1000Base-T(X)			
RJ45 Port Indicator	Green for Link/Act. Amber for 100Mbps indicator		
100/1000Base-X Fiber			
Port Indicator	Green for port Link/Act.		
Fault contact			
Relay	Relay output to carry capacity of 1A at 24VDC		
Power			
Redundant Input			
Power	Dual DC inputs. 24 ~ 36VDC on 6-pin terminal block		
Power Consumption			
(Тур.)	9 Watts (power consumption of P.S.E. is not included)		
Overload Current	Durseaut		
Protection	Present		
Reverse polarity	Not Presented		
protection	Not Fresenteu		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	74.3 (W) x 109.2 (D) x 153.6 (H) mm (2.93 x 4.3 x 6.05 inch)		
Weight (g)	1100 g		
Environmental			
Storage Temperature	-40 to 85°C (-40 to 185°F)		
Operating	-40 to 70°C (-40 to 158°F)		
Temperature			
Operating Humidity	5% to 95% Non-condensing		
Regulatory approvals			
EMI	FCC Part 15, CISPR (EN55022) class A		
	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT),		
EMS	EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8,		
נויוס	EN61000-4-11		
EMS Shock			
	EN61000-4-11		
Shock	EN61000-4-11 IEC60068-2-27		
Shock Free Fall	EN61000-4-11 IEC60068-2-27 IEC60068-2-32		

3ISYS -AAAA-C-FC				
Module Identifier	Number of Copper 10/100Base-T(X) ports	Number of 10/100/1000Base-T(X) Combo Ports		
Fast Ethernet, ETHE	8	2		

Availa	Model Name	Description	
	ble 3ISYS-ETHE-8C2FC- Model 24V	Industrial 10-port managed PoE Ethernet switch with	
		8x10/100Base-T(X) P.S.E. and 2xGigabit combo ports, SFP	
noder		socket	

Items Included

1	3ISYS-ETHE-8C2FC-24V x 1	1	3ISYS Tool CD x 1
1	DIN-Rail Kit x 1	1	Wall-mount Kit x 1

Quick Installation Guide x 1 1

- DIN-Rail Kit x 1
- 1 Wall-mount Kit x 1
- 1 Console Cable x 1

Optional Accessories

1	System-vision S5C: Powerful Network	1	3ISYS-SFP-100 : 100Mbps SFP optical
	Management Windows Utility Suit, 500 IP		transceiver
	devices	1	3ISYS-SFP-1G: 1Gbps SFP optical transceiver
1	3ISYS-PWR-75-48 : 75 Watts DIN-Rail power	1	3ISYS-PWR-120-48 : 120 Watts DIN-Rail power
	supply		supply



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