3ISYS-ETHR-24C4F-G/24F-G-E

INDUSTRIAL 28-PORT RACK MOUNT MANAGED GIGABIT ETHERNET SWITCH WITH 24X10/100/1000BASE-T(X) AND 4X1000BASE-X, SFP SOCKET



FEATURES

- Support 4x1000Base-X SFP ports and 24x10/100/1000Base-T(X)
- Support Jumbo frame up to 9K Bytes
- Supports Sys-Ring (recovery time < 25ms over 250 units of connection), MSTP/RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- 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
- Provide Fast recovery technology for Ethernet multi-redundancy
- Support Jumbo frame up to 9.6K Bytes
- Supports IPV6 new internet protocol version
- Support Modbus TCP protocol
- Provided HTTPS/SSH protocol to enhance network security
- Supports SMTP client
- Supports IP-based bandwidth management
- Supports application-based QoS management
- Supports Device Binding security function
- Supports DOS/DDOS auto prevention
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Supports SNMP v1/v2c/v3, RMON and 802.1Q VLAN Network Management
- Support ACL, TACACS+ and 802.1x User Authentication for security
- Multiple notification for warning of unexpected event
- Windows utility (System-Vision) support centralized management and configurable by Web-based interface, Telnet and Console (CLI)
- Support LLDP Protocol
- Event notification through Syslog, Email, SNMP trap, and Relay Output (for –E module)
- 19 inches rack mountable design















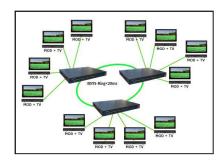


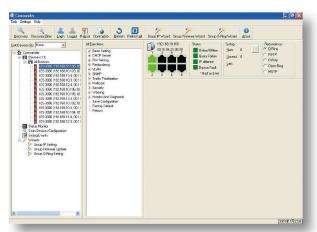
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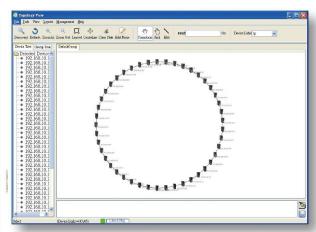
PRODUCT OVERVIEW

3ISYS-ETHR-24C4F-G series are managed redundant ring Ethernet switch with 4x1000Base-X SFP ports and 24x10/100/1000Base-(TX) ports. 3ISYS-ETHR-24C4F-G is an environmentally hardened Industrial Managed Ethernet Switch with high Port-density, Gigabit Fiber link capability. It is specifically designed to operate stably in electrically harsh and the toughest environment under extended wide operating temperature range. Sys-Ring (recovery time < 30ms over 250 units of connection) and MSTP (RSTP/STP compatible) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. And support wide operating temperature from -40 oC to 75 oC. 3ISYS-ETHR-24C4F-G series can also be managed centralized and convenient by System-Vision, except the Web-based interface, Telnet and console (CLI) configuration. The switch is the most reliable choice for highly-managed and Fiber Ethernet application in Industrial network.

3ISYS's switches are intelligent switches. Different form other traditional redundant switches, 3ISYS provides a set of Windows Management utility (System-Vision v1.0 or above) for user to manage and monitor all of industrial Ethernet switches on the industrial network.



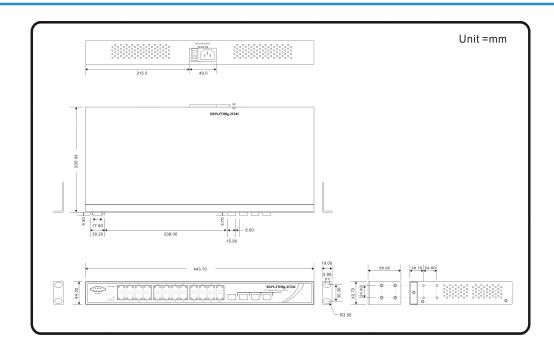




Monitoring and Configuration interface

Topology View

Dimension



Technical Specifications

3ISYS Switch Model	3ISYS-ETHR-24C4F-G 3ISYS-ETHRg-24C4F-G-E			
Physical Ports				
1000Base-X SFP Port	4			
10/100/1000				
Base-T(X) Ports in				
RJ45	24			
Auto MDI/MDIX				
Technology				
	IEEE 802.3 for 10Base-T			
	IEEE 802.3u for 100Base-TX			
	IEEE 802.3ab for 1000Base-T			
	IEEE 802.z for 1000Base-X			
	IEEE 802.3x for Flow control			
	IEEE 802.3ad for LACP (Link Aggregation Control Protocol)			
Ethernet Standards	IEEE 802.1p for COS (Class of Service)			
	IEEE 802.1Q for VLAN Tagging			
	IEEE 802.1D for STP (Spanning Tree Protocol)			
	IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)			
	IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol)			
	IEEE 802.1x for Authentication			
	IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)			
MAC Table	8K			
Priority Queues	4			
Processing	Store-and-Forward			
	Switching latency: 7 us			
	Switching bandwidth: 56Gbps			
Switch Properties	Max. Number of Available VLANs: 256			
	IGMP multicast groups: 128 for each VLAN			
	Port rate limiting: User Define			
Jumbo frame	Up to 9.6K Bytes			
	Device Binding security feature			
Security Features	Enable/disable ports, MAC based port security			
	Port based network access control (802.1x)			
	VLAN (802.1Q) to segregate and secure network traffic			
	Radius centralized password management			
	SNMPv3 encrypted authentication and access security			
	Https / SSH enhance network security			

	STP/RSTP/MSTP (IEEE 802.1D/w/s)			
	Redundant Ring (Sys-Ring) with recovery time less than 30ms			
	over 250 units			
	TOS/Diffserv supported			
	Quality of Service (802.1p) for real-time traffic			
	VLAN (802.1Q) with VLAN tagging and GVRP supported			
	IGMP Snooping			
Software Features	IP-based bandwidth management			
	Application-based QoS management			
	DOS/DDOS auto prevention			
	Port configuration, status, statistics, monitoring, security			
	DHCP Client/Server			
	SMTP Client			
	Modbus TCP			
	Sys-Ring			
	Uni-Ring			
Network Redundancy	Sys-Chain			
Network Reduitedincy	MRP			
	Fast Recovery Mode			
	STP/RSTP/MSTP			
RS-232 Serial Console Port	RS-232 in DB9 connector with console cable. 115200bps, 8, N, 1			
LED Indicators				
Power Indicator (PWR)	Green: Power indicator For AC	Green: Power indicator For AC and DC		
Power-1 Indicator	N/A	Green: Indicate Power-1 input		
(PW1)	IV/A	Green : Indicate Fower-1 input		
Power-2 Indicator	N/A	Green : Indicate Power-2 input		
(PW2)	14/7	Green . maicate rower-2 input		
Power-3 Indicator	N/A	Green: Indicate Power-3 input		
(PW3)	IV/A	Green : Indicate Fower-5 input		
System Ready	Green: Indicate that the system is ready. The LED is blinking when			
Indicator (STA)	the system is upgrading firmware			
Ring Master Indicator				
(R.M.)	Green: Indicate that the system is operating in Sys-Ring Master mode			
Cyc-Ding Indicator (Ding)	Green: Indicate system operated in Sys-Ring mode Blinking to			
Sys-Ring Indicator (Ring)	indicate Ring is broken.			
Fault Indicator (Fault)	N/A	Amber : Indicate unexpected		
radic fridicator (Fault)	14/7	event occurred		

System Runnig Indicator (RUN)	Green : System operated continuously					
Supervisor Login Indicator (RMT)	Green: System is accessed remotely					
Reset To Default Running Indicator (DEF)	Green: System reset to default configuration					
Ping Command To The Switch Indicator (Ping)	Green: System is processing "PING" request					
10/100/1000Base-T(X)	Green for port Link/Act indicator. Amber for half/full-duplex					
RJ45 Port Indicator	indicator					
1000Base-X SFP Port Indicator	Green for port Link/Act.					
Fault contact						
Relay	N/A	Relay output to carry capacity of				
		1A at 24VDC				
Power						
Redundant Input		100~240VAC with power cord,				
Power	100 ~ 240VAC with power cord	dual 36 ~ 72VDC power inputs at				
		6-pin terminal block				
Power Consumption	36 Watts	36 Watts				
(Typ.) Overload Current						
	Present					
Protection						
Physical Characteristic						
Enclosure	19 inches rack mountable					
Liiciosure	443.7 (W) x 200 (D) x 44 (H)					
Dimension (W x D x H)	mm	431 (W) x 342 (D) x 44 (H) mm				
Weight (g)	2700g	4250g				
Environmental						
Storage Temperature	-40 to 85°C (-40 to 185°F)					
Operating	40 to 7090 / 40 to 15095 \					
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)					

Warranty	1 year
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
	EN61000-4-11
	EN61000-4-8,
	EN61000-4-6 (CS),
	EN61000-4-5 (Surge),
	EN61000-4-4 (EFT),
	EN61000-4-3 (RS),

Ordering Information



Module Identifier		Number of 10/100/1000 Base-T(X) Ports		Number of 1000Base-X SFP Port	
Rack moun Ethernet, E	_		24		4

Items Included

- S 3ISYS-ETHR-24C4F-G
- 3ISYS Tool CD x 1
- Quick Installation Guide x 1

(-E) x 1

- **S** Console Cable x 1
- **Power Cable x 1**

Rack-mount Kit x 1

Optional Accessories

- System-Vision S5C : Powerful Network
 Management Windows Utility Suit, 500
 IP devices
- § 3ISYS-PWR-120-48: 48V/120Watts DIN-Rail power supply (Only for -E)
- § 3ISYS-SFP-1G: 1Gbps SFP optical transceiver
- § 3ISYS-PWR-75-48 : 48V/75Watts DIN-Rail power supply (Only for –E)



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