

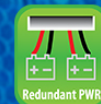
3ISYS-ETHR-24C2FC-E

INDUSTRIAL 26-PORT RACK MOUNT MANAGED ETHERNET SWITCH SERIES



FEATURES

- 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
- Supports auto-negotiation, auto-MDI / MDI-X detection on each RJ-45 port
- High performance Store and Forward architecture, broadcast storm control, runt /
- CRC filtering eliminates erroneous packets to optimize the network bandwidth
- O-RSTP support applications with complex topology
- MSTP/RSTP/STP(IEEE 802.1s/w/D)
- Secured ACL supported
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- Support LLDP (Link Layer Discovery Protocol)
- Port lock to prevent access from unauthorized MAC address
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- Bundled Windows utility (System-Vision) support centralization management and configurable by
- Web-based ,Telnet, Console (CLI)
- Include 100~240 VAC and Dual +12~+48 VDC or -12~-48 VDC power inputs for "-E" model
- 19 inches rack mountable

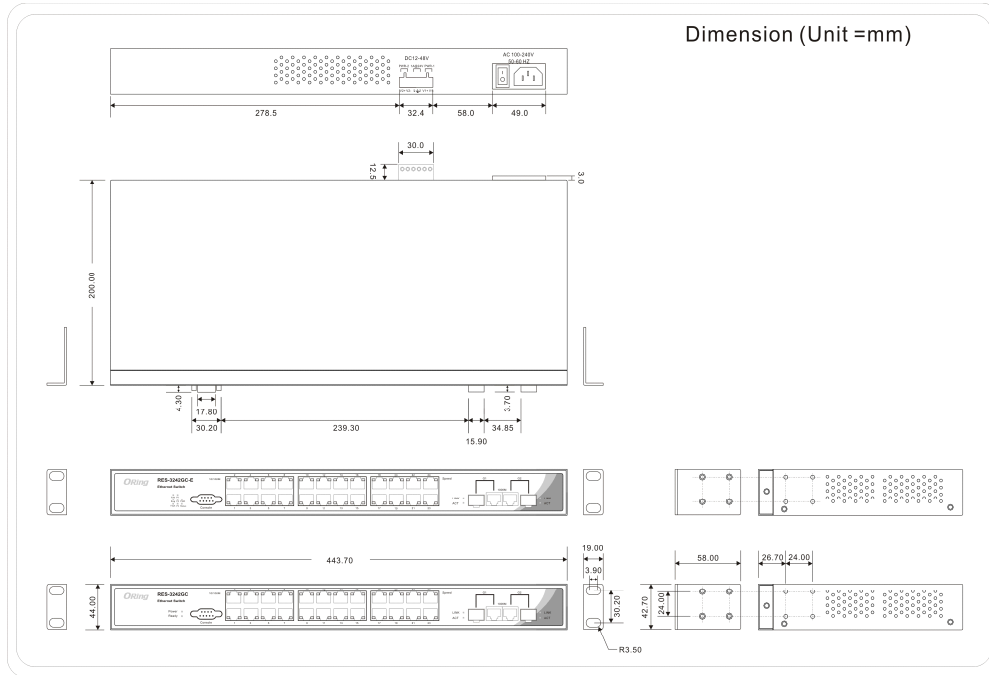


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PRODUCT OVERVIEW

3ISYS-ETHR-24C2FC is a 26-port rack mount managed Redundant Ring Ethernet switch with 2xGigabit Combo ports, SFP socket and 24x10/100Base-T(X). With completely support of Ethernet Redundancy protocol, Sys-Ring (recovery time < 10ms over 250 units of connection), Uni-Ring, O-RSTP and MSTP/RSTP/STP (IEEE 802.1s/w/D) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. 3ISYS-ETHR-24C2FC can be managed centralized and convenient by a powerful windows utility — System-Vision. 3ISYS-ETHR-24C2FC also supports functions of network management, such as SNMP, RMON, Port Trunking, and Port/Tag-based VLAN security. 3ISYS-ETHR-24C2FC -E model support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 oC to 70 oC. One additional relay output is provided for system alarm warning, Therefore, 3ISYS-ETHR-24C2FC is one of the most reliable choice for highly-managed and Fiber Ethernet application.

Dimension



Specifications

3ISYS Switch Model	3ISYS-ETHR-24C2FC	3ISYS-ETHR-24C2FC-E
Physical Ports		
Gigabit combo port with 10/100/1000Base-T(X) and 1000Base-X SFP		2
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX		24
RS-232 Serial Console Port	RS-232 console cable. 9600bps, 8, N, 1	
Technology		
Ethernet Standards	<ul style="list-style-type: none"> § IEEE 802.3 for 10Base-T § IEEE 802.3u for 100Base-TX § IEEE 802.3ab for 1000Base-T(X) § IEEE 802.3z for 1000Base-X 	

	<ul style="list-style-type: none"> § IEEE 802.3x for Flow control § IEEE 802.3ad for LACP (Link Aggregation Control Protocol) § IEEE 802.1D for STP (Spanning Tree Protocol) § IEEE 802.1p for COS (Class of Service) § IEEE 802.1Q for VLAN Tagging § 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	8192 MAC addresses
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	<ul style="list-style-type: none"> § Switching bandwidth : 8.8Gbps § Max. Number of Available VLANs:4096 § IGMP multicast groups: 1024 § Port rate limiting: User Define § Packet buffer : 4Mbps
Security Features	<ul style="list-style-type: none"> § Enable/disable ports, MAC based port security § ACL supported § Port based network access control (802.1x) § VLAN (802.1q) to segregate and secure network traffic § Radius centralized password management § SNMP v1/v2c/v3 encrypted authentication and access security
Software Features	<ul style="list-style-type: none"> § STP/RSTP/MSTP (IEEE 802.1D/w/s) § Redundant Ring (Sys-Ring) with recovery time less than 10ms 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 for multicast filtering § Port configuration, status, statistics, monitoring, security § SNTP for synchronizing of clocks over network § Support PTP Client (Precision Time Protocol) clock synchronization § DHCP Server / Client support § Port Trunk support § MVR (Multicast VLAN Registration) support
Network Redundancy	<ul style="list-style-type: none"> § Sys-Ring

	<ul style="list-style-type: none"> § MSTP § Uni-Ring § O-RSTP § STP § RSTP 	
Warning / Monitoring System	<ul style="list-style-type: none"> § Relay output for fault event alarming § Syslog server / client to record and view events § Include SMTP for event warning notification via email § Event selection support 	
LED indicators		
Power indicator	Green for power on	Green : Power LED x 4
Status indicator	Green on for system ready	Green on for system ready
R.M. indicator	-	Green : Indicate system operated in Sys-Ring Master mode
Sys-Ring indicator	-	Green : Indicate system operated in Sys-Ring mode
Fault indicator	-	Amber : Indicate unexpected event occurred
10/100Base-T(X) RJ45 port indicator	Green at left for port Link/Act. Amber at right for 100Mbps link	Green at left for port Link/Act. Amber at right for 100Mbps link
1000Base-T(X) / Fiber port indicator	Green for port Link/Act	Green for port Link/Act
Fault contact		
Relay	-	Relay output to carry capacity of 1A at 24VDC
Power		
Redundant Input power	100~240VAC with power cord	100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block
Power consumption (Typ.)	23.6 Watts	DC : 21.2 Watts / AC : 23.6 Watts
Overload current protection	Present	
Physical Characteristic		
Dimension (W x D x H)	443.7 (W) x 200 (D) x 44 (H) mm (17.47 x 7.88 x 1.73 inch)	
Weight (g)	2490 g	2590 g

Environmental		
Operating Temperature	-10 to 60°C (14 to 140°F)	-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	
Warranty	1 year	

Ordering Information

3ISYS - AAAA - C - FC

Module Identifier	Number of 10/100Base-T(X) Ports	Number of Gigabit combo ports, 100/1000Base-X, SFP sockets
Rack mount Ethernet, ETHR	24	2

Items Included

1	3ISYS-ETHR-24C2FC x 1	1	3ISYS Tool CD x 1	1	Quick Installation Guide x 1
1	Rack-mount Kit x 1	1	Console Cable x 1		

Available Model	Model Name	Description	Operating Temperature
	3ISYS-ETHR-24C2FC_US	Industrial 26-port rack mount managed Ethernet switch with 2xGigabit combo ports, SFP socket and 24x10/100Base-T(X), US power cord	-10 to 60°C
	3ISYS-ETHR-24C2FC-EU	Industrial 26-port rack mount managed Ethernet switch with 2xGigabit combo ports, SFP socket and 24x10/100Base-T(X), EU power cord	-10 to 60°C
	3ISYS-ETHR-24C2FC_US	Industrial 26-port rack mount managed Ethernet switch with 2xGigabit combo ports, SFP socket and 24x10/100Base-T(X), enhanced version, US power cord	-40 to 70°C
	3ISYS-ETHR-24C2FC	Industrial 26-port rack mount managed Ethernet switch with 2xGigabit combo ports, SFP socket and 24x10/100Base-T(X), enhanced version, EU power cord	-40 to 70°C

Optional Accessories

- | | | | |
|---|--|---|---|
| 1 | System-Vision S5C: Powerful Network Management Windows Utility Suit, 500 IP devices | 1 | 3ISYS-SFP-1G : 1Gbps SFP optical transceiver |
| 1 | 3ISYS-PWR-75 series : 75 Watts DIN-Rail power supply (Only for –E) | 1 | 3ISYS-PWR-45 series : 45 Watts DIN-Rail power supply (Only for –E) |
| | | 1 | 3ISYS-PWR-120 series : 120 Watts 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.