

ICS-G24S4X

Industrial 24x100/1000Base-X SFP with 4x Combo, and 4x 10GbE SFP+ Core Switch

ICS-G24S2X

Industrial 24x100/1000Base-X SFP with 4x Combo, and 2x 10GbE SFP+ Core Switch

ICS-G2454X & ICS-G2452X are Ethernet Core Switches that are equipped with 24 Gigabit SFP ports with 4 combo ports plus 2 or 4 10G SFP+ ports. ICS series models are all fanless with redundant isolated power supplies (2 AC, 2 DC, AC + DC) and can be mounted in 19 inch standard rack. They not only offer various layer 2 management functions (IGMP, VLAN, QoS, Security, IPv6, bandwidth control, port mirroring, cable diagnostic and Green Ethernet) but also support u-Ring redundancy protocol that can establish 14 independent rings for flexible applications, especially employed in backbone infrastructure. ICS switches can also be managed centrally and conveniently by CTC Union's SmartView Element Management System and mass configured by SmartConfig.

Housed in rugged rack mountable enclosures, ICS Series complies with many industrial-grade standards and are ideal for deployments in harsh environments to deliver mission-critical network services. Additionally, with high port density and Gigabit or 10 Gigabit high-speed feature on each port, ICS-G24S4X & ICS-G24S2X are a reliable and scalable solution for core layer or backbone applications.

Features

- 24x 100/1000Base-X SFP with 4xCombo (SFP+RJ-45) and 4x 10GBase-X SFP+ (ICS-G24S4X)
- 24x 100/1000Base-X SFP with 4xCombo (SFP+RJ-45) and 2x 10GBase-X SFP+ (ICS-G24S2X)
- UL60950-1, CE, FCC, Rail Traffic EN50121-4 certified
- Redundancy isolated low voltage 24/48VDC, or/and isolated High voltage AC (110/240 VAC) power inputs
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

Cable diagnostic, Measuring cable normal or broken point distance

- Supports Green Ethernet IEEE802.3az EEE (Energy Efficient Ethernet), management to optimize the power consumption
- STP, RSTP, MSTP, ITU-T G.8032 Ethernet Ring Protection Switching (ERPS) for redundant cabling
- Provides 14 instances that each can support u-Ring, u-Chain or Sub-Ring type for flexible uses (see Figure 3). Supports up to 14 rings in one device (see Figure 1).
- u-Ring for Redundant Cabling, recovery time<10ms in 250 devices
- DHCP client/Relay/Snooping/Snooping option 82/Relay option 82
- QoS, Traffic classification QoS, CoS, bandwidth control for Ingress

Specifications

Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet				
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet				
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair				
	IEEE 802.3z	1000Base-X Gbit/s Ethernet over Fiber-Optic				
	IEEE802.3ae	10 Gbit/s Ethernet over fiber				
	IEEE 802.1d	STP (Spanning Tree Protocol)				
	IEEE 802.1w	RSTP (Rapid Spanning Tree Protocol)				
	IEEE 802.1s	MSTP (Multiple Spanning Tree Protocol)				
	ITU-T G.8032 / Y.1344	ERPS (Ethernet Ring Protection Switching)				
	IEEE 802.1Q	Virtual LANs (VLAN)				
	IEEE 802.1X	Port based and MAC based Network Access Control, Authentication				
	IEEE 802.3ad	Link aggregation for parallel links with LACP(Link Aggregation Control Protocol)				
	IEEE 802.3x	Flow control for Full Duplex				
	IEEE 802.1ad	Stacked VLANs, Q-in-Q				
	IEEE 802.1p	LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization				
	IEEE 802.1ab	Link Layer Discovery Protocol (LLDP)				
	IEEE 802.3az	EEE (Energy Efficient Ethernet)				
VLAN ID	4094 IEEE802.1Q VLAN VID					
Switch Architecture	Back-plane (Sw 128Gbps (ICS- (vitching Fabric): G24S4X) 88Gbps (ICS-G24S2X)				
Data Processing	Store and Forv	vard				
Flow Control	IEEE 802.3x for full duplex mode Back pressure for half duplex mode					
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and Egress, Storm Control, DiffServ

- IEEE802.1q VLAN, MAC based VLAN, IP subnet based VLAN, Protocol based VLAN, VLAN translation, GVRP, MVR
- Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
- IGMP snooping V1/V2/V3, IGMP Filtering/ Throttling, IGMP query, IGMP proxy reporting, MLD snooping V1/V2
- \bullet Security: Port based and MAC based IEEE802.1X, RADIUS, ACL, TACACS+, HTTP/HTTPS, SSL/SSH v2
- Software upgrade via TFTP and HTTP, redundant firmware to avoid in case of upgrade failure
- Supports IEEE1588 PTP V2 for precise time synchronization to operate in Master, Boundary, Slave mode by each port
- RMON, MIB II, Port mirroring, Event syslog, DNS, NTP/SNTP, IEEE802.1ab LLDP
- Supports IPv6 Telnet server /ICMP v6
- CLI, Web based management, SNMP v1/v2c/v3, Telnet server for management
- Provides SmartConfig for quick and easy mass configuration
- Supports SmartView for Centralized Management

Network Connector	24x 100/1000Base-X SFP with 4x GbE Combo (UTP/ SFP)+ 4x 10GBase-X SFP+ (ICS-G24S4X) 24x 100/1000Base-X SFP with 4x GbE Combo (UTP/ SFP)+ 2x 10GBase-X SFP+ (ICS-G24S2X) RJ-45 UTP port support 10/100/1000Base-T(X), Auto negotiation speed,Auto MDI/MDI-X function GbE port SFP support dual speed (100M/1000M) with DDMI 10GbE port SFP+ support dual speed (1000M/10G) with DDMI
Console	RS-232 (RJ-45)
Network Cable	UTP/STP above Cat. 5e cable
	EIA/TIA-568 100-ohm (100m)
Protocols	CSMA/CD
Timing synchronization	ITU-T G.8262 SyncEthernet (-SE model) IEEE 1588 PTP v2
Reverse Polarity Protection	Present
Overload Current Protection	Present
CPU Watch Dog	Present
Power Supply	Redundant 2x Isolated Low Voltage DC Input power (-DD model) Redundant 1x isolated Low Voltage DC and 1x High Voltage AC input power (-AD model) Redundant 2x isolated High Voltage AC input power (-AA model) Low Voltage DC: Isolated 24/48V (18~60VDC), Removable Terminal Block High voltage AC: isolated 110/240VAC (88VAC~264VAC)
Power Consumption	

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Industrial Core Switch - ICS-G24S4X, ICS-G24S2X

LED	Per unit: Power 1 (Green), Power 2 (Green), Act /Alarm (Green/Red), Ring Master (Green)					
	Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Yellow)					
	SFP (P1~24) Fiber Per port: 100Base-X Link/Active (Green) 1000Base-X Link/Active (Yellow) SFP+ (P25~P28) Fiber Per port: 1000Base-X Link/Active (Amber) 10GBase-X Link/Active (Blue)					
Jumbo Frame	10K					
MAC Address Table	32K					
Memory Buffer	4M Bytes for packet buffer					
Warning Message	System Syslog, SMTP/ e-mail event message, alarm relay					
Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, 2-Pin removable terminal block					
Operating Temperature	-10 ~ 60°C					
Operating Humidity	5% to 95% (Non-condensing)					
Storage Temperature	-40 ~ 85°C					
Housing	Rugged Metal, IP30 Protection, Fanless					
Dimensions	250 x 440 x 44 mm (D x W x H)					
Weight	TBD					

Software Specifications

Topology					
VLAN	IEEE 802.1q VLAN,up to 4094 802.1Q VLAN VID				
	IEEE 802.1q VLAN,up to 4094 Groups				
	IEEE 802.1ad Q-in-Q				
	MAC-based VLAN,up to 256 entries				
	IP Subnet-based VLAN, up to 128 entries				
	Protocol-based VLAN(Ethernt, SNAP, LLC), up to 128 entries				
	VLAN Translation, up to 256 entries				
	GVRP (GARP VLAN Registration Protocal)				
	MVR (Multicast VLAN Registration)				
Link Aggregation	Static (Hash with SA, DA, IP, TCP/UDP port), up to 5 trunk group				
(Port Trunk)	Dynamic (IEEE 802.3ad LACP), up to 5 trunk group				
Spanning Tree	IEEE802.1d STP				
	IEEE802.1w RSTP				
	IEEE802.1s MSTP				
Multiple u-Ring	up to 14 instances that each supports u-Ring, u-Chain or				
	Sub-Ring type for flexible uses, and maximum up to 14 Rings.				
	Recovery time <10ms The maximum number of devices allowed in a Ring				
	supported ring is 250.				
Loop Protection	Present				
ITU-T G.8032 /	Recovery time <50ms				
Y.1344 ERPS (Ethernet Ring					
Protection)	Single Ring, Sub-Ring, Multiple ring topology network				
QoS Features					
QoS Features Class of Service	IEEE802.1p 8 active priorities queues for per port				
Class of Service Traffic	IEEE802.1p 8 active priorities queues for per port IEEE802.1p based CoS				
Class of Service					
Class of Service Traffic	IEEE802.1p based CoS				
Class of Service Traffic	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/				
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Class of Service Traffic Classification QoS	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number				
Class of Service Traffic	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps				
Class of Service Traffic Classification QoS Bandwidth	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474)	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474) Storm Control	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking for Unicast, Broadcast, Multicast				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474) Storm Control IP Multicasting Fea	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking for Unicast, Broadcast, Multicast htures				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474) Storm Control IP Multicasting Fea IGMP / MLD	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking for Unicast, Broadcast, Multicast Stures IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474) Storm Control IP Multicasting Fea	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking for Unicast, Broadcast, Multicast Itures IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2 Port Filtering Profile				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474) Storm Control IP Multicasting Fea IGMP / MLD	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking for Unicast, Broadcast, Multicast Itures IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2 Port Filtering Profile Throttling, Fast Leave				
Class of Service Traffic Classification QoS Bandwidth Control for Ingress Bandwidth Control for Egress DiffServ (RF 2474) Storm Control IP Multicasting Fea IGMP / MLD	IEEE802.1p based CoS IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number Rate in steps :1 kbps / Mbps / fps / kfps Range : 100 kbps to 1Gbps / 1fps to 3300kfps Rate Unit : bit or frame Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper Remarking for Unicast, Broadcast, Multicast Itures IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2 Port Filtering Profile				

Installation Mounting	19" rack mount				
MTBF	ТВД				
Warranty	5 years				
Certification					
EMC	CE				
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A,CE EN55022 Class A				
Railway Traffic	EN50121-4				
Immunity for Heav Industrial Environment	YY EN61000-6-2				
Emission for Heavy Industrial Environment	EN61000-6-4				
EMS (Electromagn	etic EN61000-4-2 (ESD) Level 3, Criteria B				
Susceptibility) Protection Level	EN61000-4-3 (RS) Level 3, Criteria A				
Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A				
	EN61000-4-5 (Surge) Level 3, Criteria B				
	EN61000-4-6 (CS) Level 3, Criteria A				
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A				
Safety	UL60950-1				
Shock	IEC 60068-2-27				
Freefall	IEC 60068-2-32				
Vibration	IEC 60068-2-6				
Security Features					
IEEE 802.1X	Port-Based				
	MAC-Based				
ACL	Number of rules : up to 256 entries				
	for L2 / L3 / L4				
RADIUS authentica	ation & accounting				
TACACS+ authenti	cation & accounting, TACACS+ 3.0				
HTTPS, HTTP					
SSL / SSH v2					
User Name	Local Authentication				

User Name	Local Authentication						
Password Authentication	Remote Authentication (via RADIUS / TACACS+)						
Management Interface Access Filtering	Web, Telnet / SSH , CLI RS-232 console						
Management Feat							
CLI	Cisco® like CLI						
Web Based Manag	ement						
Telnet	Server						
SNMP	V1, V2c, V3						
SW &	TFTP, HTTP						
Configuration Upgrade	Redundant firmware in case of upgrade failure						
RMON	RMON I (1, 2, 3, 9 group), RMON II						
MIB	RFC1213 MIB II, Private MIB						
DHCP	Client, Relay, Snooping						
	Snooping option 82						
	Relay option 82						
IP Source Guard							
Port Mirroring							
Event Syslog	Syslog server (RFC3164) (Support 1 server)						
Warning Message	System syslog, e-mail, alarm relay						
DNS	Client, Proxy						
IEEE1588 PTP V2	Master, Boundary, Slave Operating mode Operating in each port of these switch						
NTP / SNTP							
LLDP (IEEE	Link Layer Discovery Protocol						
802.1ab)	LLDP-MED						
IPv6 Features							
IPv6 Management	Telnet Server/ICMP v6						
SNMP over IPv6							
HTTP over IPv6							
SSH over IPv6							
IPv6 Telnet Suppor							
IPv6 NTP / SNTP Su							
IPv6 TFTP Support							
IPv6 QoS							
IPv6 ACL	Number of rules: up to 256 entries						
	L2/L3/L4						

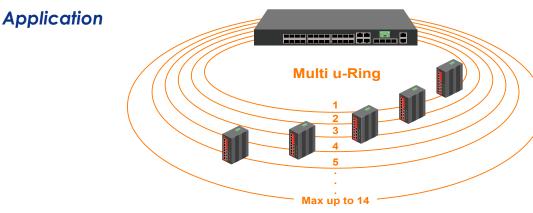
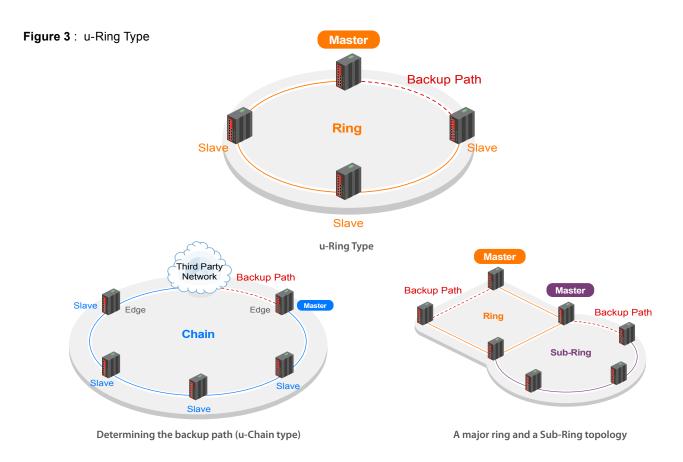


Figure 1 : Multiple Rings

Delete Instance		Туре	Master		ast	West		
Delete	monanoe	Type	master	Port	Edge	Port	Edge	
Delete	1	u-Ring 🔹		1 •]	2 🔹		
Delete	2	u-Ring 🔻		4 •]	3 🔹		
Delete	3	u-Ring 🔻		10 •]	11 🔹		
				1				
Delete	12	u-Chain 🔻		16 🔻		9		
Delete	13	Sub-Ring V		21 🔻]			
Delete	14	u-Ring 🔻		28 •	1	8	6	
Add New I	Instance							

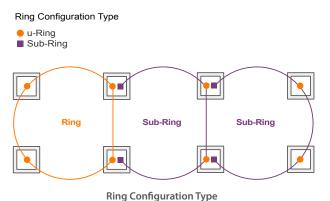
Figure 2 : User-Friendly Configuration In Web Interface

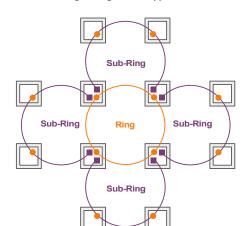


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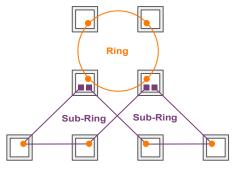
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Figure 4 : Ring Configuration Example

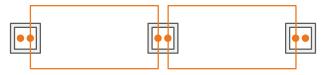




Combination of a ring and four Sub-Ring



Combination of a ring and two Sub-Ring



Cable Redundancy

Ordering Information

			GbE Port		10GbE	Input Power		Certification			
Model Name	Managed	Total Port	100/1000 Base-X SFP	10/100/1000 Base-T UTP or 100/1000Base-X SFP	IEEE 802.3ae SFP+	DC (Low Volt) isolated 24/48VDC	AC (High Volt) 110/240V AC	Safety UL60950-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC
ICS-G24S4X-AA	V	28	20	4 Combo	4		2	V	V	V	V
ICS-G24S4X-DD	V	28	20	4 Combo	4	1	1	V	V	V	V
ICS-G24S4X-AD	V	28	20	4 Combo	4	2		V	V	V	V
ICS-G24S2X-AA	V	26	20	4 Combo	2		2	V	V	V	V
ICS-G24S2X-DD	V	26	20	4 Combo	2	1	1	V	V	V	\vee
ICS-G24S2X-AD	V	26	20	4 Combo	2	2		V	V	V	V
Model Naming	g Rule										
Industrial G: Gigabit 24S: 24 x GbE SFP 4X: 4x 10G SFP+ Core with 4 Combo 2X: 2x 10G SFP+ D: 24/48VDC)											
Optional Access	sories										
DR-120-24	Industria	al Powe	r, Input 88 ~ 13	2VAC / 176 ~ 264VAC, 0	Output 24VDC	, 120W, -10 ~ +	60°C				
DRP-240-48	RP-240-48 Industrial Power, Input 85 ~ 264VAC, Output 48VDC, 240W, -10 ~ +70°C										

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