SIC-E

8 or 12 Ports IEC 61850-3 compliance

Industrial Managed Gigabit Switch

- The SIC-E Series is a highly reliable Gigabit Managed Ethernet Switch. Its IEC61850-3 compliance allows it to be core part in the IEC 61850 network in power substations and control centers.
- The IEEE1588 Precision Time Protocol capabilities allow the deployment of SIC-E Series in networks with stringent time Synchronization requirements. It can act as hw-assisted End-to-End transparent clock providing nanosecond-accurate correction-field packet-update and as a sw-assisted boundary clock.
- The device equips up to 8 10/100/1000BASE-T(X) RJ-45 ports and up to 4 1000BASE-X SFP ports.
- With its high performance, it provides network redundancy self-recovery mechanisms is less than 20ms on full load that enables the user to build a reliable network through a redundant ring topology. ERPS/STP/MSTP/RSTP/MRP (Client) and many other compatible rings are supported. With a Multifunctional web dashboard, its offers intelligent features such as Quality of service (QoS), Virtual LAN (VLAN), IGMP, IGMP Snooping, Port mirroring and security.

Selection & Ordering data SIC-E

SIC-E			8 or 12-Port Industrial Managed Gigabit Switch
			PORTS
	0		6 X 10/100/1000 BASE-T(X) ports and 2 x 100 BASE-X SFP ports
	1		8 X 10/100/1000 BASE-T(X) ports and 4 x 100 BASE-X SFP ports
			POWER SUPPLY
		0	Dual 24-57 VDC input
		1	Dual 110-370 VDC input
		2	Dual 100-240 VAC input

Example of ordering code:

SIC-E	**0**	**2**	*SIC-E 0 2*

Technical parameters SIC-E

Switch Properties	Priority Queues	8
	VLAN Table	4096
	MAC-Based VLAN	512
	VLAN ID Range	VID 1 to 4094
	Trunk Group	4
	Static IGMP Groups	128
	Dynamic IGMP Groups	256
	MAC Table Size	16K
	Packet Buffer Size	1.5 MB
	Jumbo Frame	9216 Byte
Ethernet	Standards	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-T(X) IEEE 802.3ab for 1000BASE-T IEEE 802.3z for 1000BASE-X IEEE 802.3x for Flow Control/ Back pressure control IEEE 802.1d-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 8021x for Authentication
	Protocols	IPv4, IPv6, IGMPv1/v2/v3, IGMP Snooping, GARP, GMRP, GVRP, SNMPv1/v2c/ v3, SNMP Inform, ICMP, Telnet, SSH, DHCP Server/ Relay/Client, DHCP Option 66/67/82, BootP, RARP, TFTP, NTP Server/Client, SNTP, SMTP, SMTP (Gmail), RMON, HTTP, HTTPS, Syslog, MRP (Client), LLDP, IEEE 1588 PTP V1/V2, IEEE 1588 Hardware-Assisted End-to-End Transparent Clock and Software-assist - ed Boundary Clock, MRP (Client), 802.1x, EAP, RADIUS, TACACS+, Mirror port, QoS, ACL, Serial Console, U-Ring, STP, RSTP, MSTP, Redundancy Compatible Ring
	Automation Profiles	Profinet CC-B compatible, Ethernet/IP ready, Modbus/TCP status registers
	SNMP MIB	MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9, RFC RFC 1157, RFC 1213, RFC 1215, RFC 1493, RFC 1643, RFC 1757, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2571, RFC 2742, RFC 2819, RFC 2863, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415

Power	Input Voltage	24-57 VDC 100~240 VAC for SICEx2 series 110~370 VDC for SICEx1 Series
	Input Current (System)	0.63A @ 24 VDC 0.16A @ 100 VAC for SICEx2 series 0.12A @ 110 VDC for SICEx1 series
	Humidity	56 days at 93% RH and +40°C IEC 60068-2-78
	Connector	5-Pin 5.08mm Lockable Terminal Block
	Reverse Polarity Protection	Yes
Interfaces	RJ45 Ports	Up tp 8 10/100/1000BASE-T(X) auto negotiation speed
	Fiber Optics Ports	Up to 4 1000BASE-X-S
	LED Indicators	PWR1, PWR2, Alarm, Run, Ring, Ring Master, RJ-45 Link/Speed, SFP Link,
	Console	RS232 (RJ45 connector)
	Relay Output	2 Relay outpus with current carrying capacity of 1A @ 24 VDC
	Dip Switches	Ring control
	Button	Reset button
Physical Characteristics	Housing	IP30 SPCC, Black
	Dimension (WxHxD)	77 x 145 x 113 mm
	Weight	1.000g (AC/HV versions) / 1.200g (Other)
	Installation	DIN-Rail, Wall mount (Optional kit)
Environmental Limits	Operating temperatura	-40°C~85°C (-40°F~185°F)
	Storage temperatura	-40°C~85°C (-40°F~185°F)
	Ambient relative humidity	-5%~95% RH, 55°C (Non-condensing