SIC-G

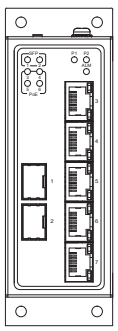
Industrial PoE Unmanaged Gigabit Ethernet Switch

Main characteristics

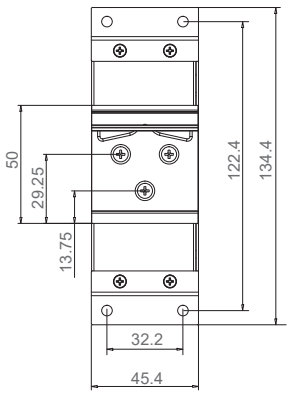
- The SIC-G is 7 Port PoE Unmanaged Gigabit Ethernet Switches designed to work in mission critical environments such as mining and heavy industry.
- It equips up to five 10/100/1000BASE-T(X) RJ-45 ports and up to two 100/1000 BASE-F(X) and 1000 BASE-X SFP ports.
- With its high performance and non-blocking switching capacity, the SIC-G Series is able to fulfill the increasing demand in industrial networking.
- Its PoE capability of 30W per port up to four ports simplifies the wiring in complex fields, where every cable is an added cost.
- The equipped terminal block provide dual redundant power inputs with Reverse Polarity Protection and relay output which allows field engineers to build up a fault alarm system.
- Its IP30 housing protection, wide operating temperature of -40 to 70°C and DIN-Rail mounting capacities are liable to do most industrial filed applications.
- The SIC-G Series is fully EN50155-certified to ensure reliable performance under a wide range of power supply conditions, and it complies with essential sections of EN50121-4 for ground equipment.

Dimensions & Layout

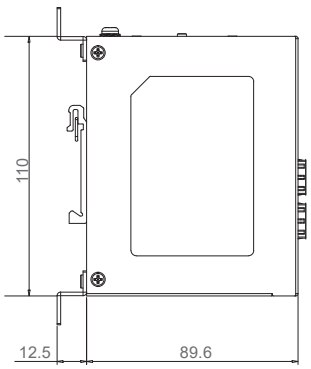
Front View



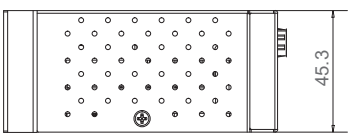
Rear View



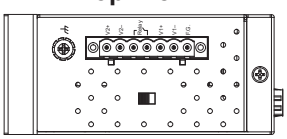
Side View



Bottom View



Top View



Regulatory approvals

Regulatory Approvals				
Safety	UL 61010-2-201, UL C1D2/ATEX Zone 2			
Rall Traffic	EN50155 / EN50121-4			
EMC	EN 55032, EN 55024, EN 61000-6-4, EN61000-6-2			
Test	**Item**		**Value**	**Level**
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±8KV ±15KV	4 4
IEC 61000-4-3	RS	80-1000MHz 1.4-2.0GHz 2.0-2.7GHz	10(V/m) 80% AM 80% AM	3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±2.0kV ±20kV ±2.0kV	3 3 4
IEC 61000-4-5	Surge	AC Power Port AC Power Port DC Power Port DC Power Port Signal Port	Line-to Line ±1.0kV Line-to Earth ±2.0kV Line-to Line ±1.0kV Line-to Earth ±2.0kV Line-to Earth ±2.0kV	3 3 3 3 3
IEC 61000-4-6	CS	Conducted	10 Vrms	3
IEC 61000-4-8	PFMF	Enclosure	10 V/m	3
IEC 61000-4-11	DIP	AC power Port	---	---
Shock Drop Vibration High Altitude	MIL-STD-810G Method 516.5 MIL-STD-810F Method 516.5 MIL-STD-810F Method 514.5 C-1 & C-2 Certified for 4000m altitude according to IEC 60068-2-13			
RoHS II	Yes			
MTBF	TBD			

Technical specifications

Model Name	SICG1	SICG2
Switch Properties		
Processing Scheme	Store-and-Forward	
MAC Address Table	8096	
Jumbo Frame	10K Bytes	
Packet Buffer	1 Mbits	
Ethernet		
Compliance	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-T(X) and 100BASE-FX(X) IEEE 802.3ab for 1000BASE-T IEEE 802.3z for 1000BASE-X IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.3x Flow Control IEEE 802.3af / 802.3at for Power-over-Ethernet IEEE 802.3az for Energy Efficient Ethernet	
Flow Control	Back pressure and pause frame-based flow control schemes	
LLDP	Forwarding	
Transmission Rate	10/100/1000 Mbps (the second SFP port is 1000 Mbps only)	
Auto MDI/MDI-X	Yes	
Power		
Input Voltage	12-52 VDC*	
Input Current (System)	0.6A @ 12 VDC	
Max. Power Consumption (System)	7.2 W	
Input Current (with PoE)	---	2.6A @ 51 V
Max. Power Consumption (with PoE)	---	130 W
Relay Output	24 V / 0.5A	
Connector	Terminal Block	
Led		
Indicators	PWR1, PWR2, Alarm, RJ45 Act/Link, SFP Link, PoE	
Physical Characteristics		
Housing	IP30 protection according to EN 60529	
Material	Aluminum	
Dimension (W x H x D)	45.3 x 89.6 x 110 mm	
Weight	350g	
Installation	DIN-rail or wall-mount (optional)	

*802.3af PoE output starts from 43 VDC input and 802.3at output starts from 51 VDC input.

Environmental Limits

Operating Temperature	-40°C~85°C (-40°F~185°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient Relative Humidity	5%~95% RH, 55°C (Non-condensing)

Selection & Ordering data
SICG

SIC-G	EN50155/ EN50121-4 certified, Industrial Unmanaged Gigabit Switch	7-Port Unmanaged Gigabit Switch with SFP Uplinks, ATEX, Profinet Connectors, Optional PoE, DIN-Rail Mount
	1	**Ports** 2 SFP + 5 RJ45 (Non-PoE)
	2	2 SFP + 1 RJ45 (Non-PoE) + 4 RJ45 (PoE)

SIC G	**1**			*SIC G 1*