

**SICOM3009BA**9 Port Embedded Intrinsically Safe Low Power Consumption  
Managed Industrial Ethernet SwitchCE, FCC, RoHS  
Chinese State Grid Certification**Overview**

The SICOM3009BA series, embedded intrinsically safe low power consumption managed industrial Ethernet switch, was developed by Kyland for industrial applications. It offers 3 100Base-FX ports and 6 10/100Base-T(X) ports. Its full load power consumption is less than 3.99W and it has passed mine safety certification. Based on Kyvision3.0, CLI, WEB interface, it offers concentrative management. The state-of-the-art OPC software enables the switch's management embedded in various industrial systems.

**Features**

- Supports 3 100Base-FX ports and 6 10/100Base-T(X) RJ45 ports
- Approved by mining safety certification, low power consumption, less than 3.99W under full load
- Supports DT-Ring protocols (Recovery time<50ms), RSTP/STP (IEEE802.1w/d) redundant protocol
- Flexible network topologies: ring, chain, star and tangent ring
- Advanced ring topology protocol avoiding broadcast storm
- Supports IGMP Snooping, port mirroring, QoS, VLAN
- Supports port speed limitation and special broadcast storm control
- Safe MAC and port binding function, static FDB supported
- Bandwidth configuration controls port bandwidth properly
- Supports multiple management functions including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC
- Power alarm output through dry contact
- Provides alarm input port, AC or DC power supply information can be displayed in the management interface
- Provides system reset and reboot buttons for easy operation
- Supports 3.3VDC power input
- Provides alarm function for AC/DC power supply
- Operating temperature: -40 to 85°C (-40 to 185°F)
- Embedded installation
- Unified management software for SICOM series: Kyvision3.0

**Technical Specifications****Standard**

IEEE802.3  
IEEE802.3u  
IEEE802.3x  
IEEE802.1d  
IEEE802.1w  
IEEE802.1p  
IEEE802.1q  
Store and forward switching mode

**Network**

Ring, chain, star and tangent ring network topology

**Interface**

100M Fiber Ports: 3 x 100Base-FX ports, (FC/SC/ST)  
10/100M Copper Ports: 6 x 10/100Base-T(X) ports, RJ45  
CONSOLE Interface: RS232, RJ45  
Alarm Output Port: 6-Pin 5.08mm-spacing terminal block, 250VAC/350VDC Max; 120mA Max  
Alarm Input Port: 6-Pin 5.08mm-spacing terminal block; When pin5 input high-level voltage, the system is under AC power supply; When pin5 input low-level voltage, the system is under DC power supply  
LED Indicator: RUN, ALARM, PWR AC, PWR DC; LINK/ACT (1, 2, 9); 10M/100M, LINK/ACT (3-8)  
System reset button: one  
System reboot button: one

**Performance**

Backplane switching capacity: 9.6G  
MAC Address Table Size: 8K

**Cable**

Twisted Pair: 0-100m  
Multi Mode Fiber: 1310nm 0-5km (100Mbps)  
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

**Power Requirements**

Power Input: 3.3VDC (3-5.5VDC)  
Power Terminal: 6-Pin 5.08mm-spacing plug-in terminal block  
Power Consumption: <3.99W

**Physical Characteristics**

Installation: Embedded module  
Dimensions (WxHxD): 130x35x107mm (5.12x1.38x4.21 in.)  
Weight: 0.3kg (0.661 pound)

**Environmental Limits**

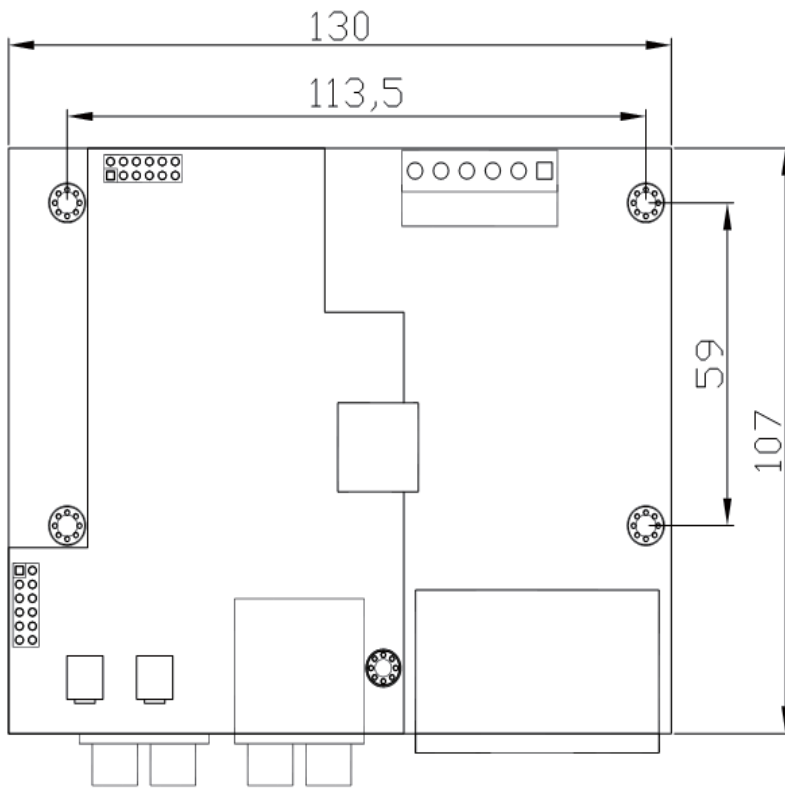
Operating Temperature: -40 to 85°C (-40 to 185°F)  
Storage Temperature: -40 to 85°C (-40 to 185°F)  
Ambient Relative Humidity: 0 to 95% (non-condensing)

**MTBF**

35 years

**Warranty**

5 years

**Mechanical Drawing****Ordering Information**

Model	Description
SICOM3009BA-3S-6T	Embedded managed Ethernet switch with 3 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector
SICOM3009BA-3M-6T	Embedded managed Ethernet switch with 3 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector

Power supply: 3.3VDC

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