SICOM2000-L2-2G2GE20T
Industrial Ethernet Core switching module
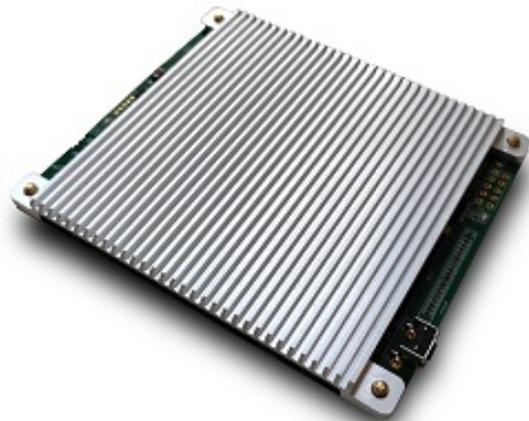
Overview

SICOM2000-L2-2G2GE20T is a two-layer network management embedded industrial Ethernet core switching module specially developed for embedded integrated applications. It supports up to 20×10/100Base Fast Ethernet interfaces and 4 Gigabit Ethernet interfaces, of which 2 are Gigabit combo interfaces. It supports a wide range of operating temperatures (-40℃~70℃+), with a size of 80mm×95mm×16mm (length×width×height), suitable for multi port communication and highly integrated applications.

Key Features

- Supports up to 2×Gigabit ports+2×Gigabit combo ports+20×100M ports
- Support hardware reset function
- Using independent flash for logs and system programs to improve product stability
- Provide 15 GPIO interfaces
- Support DT-Ring, RSTP/MSTP, DRP network redundancy

Product Specifications

>Software Features
-Switching

Supports VLAN,PVLAN

Support GVRP

Support port aggregation

Support LACP

Support port flow control

Support port speed limit and broadcast storm suppression

-Redundancy

Supports DT-Ring, recovery time<50ms

Supports DRP, recovery time<20ms

Supports RSTP/MSTP

-Multicast

Supports IGMP-snooping

Supports GMRP

Supports static multicast

-Security

Supports IEEE 802.1X

Supports HTTPS/SSL

Supports SSH

Supports RADIUS

Support TACACS+

Supports account classification

-QoS

Supports ACL

Supports 802.1p and TOS/DiffServ, Supports SP, WRR queuing and scheduling

-Management and Maintenance

Supports Console,Telnet,WEB

Supports SNMPv1/v2c/v3

Supports FTP/TFTP

Supports Port mirroring

Supports Syslog

Supports LLDP

-Time Management

Supports SNTP client

Supports PTPv2 TC

>Technical Specifications
-Technical Parameters

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-TX)

IEEE 802.3ab(1000Base-T)

IEEE 802.3x(flow control)

IEEE 802.1p(priority)

IEEE 802.1Q(VLAN)

IEEE 802.1s(MSTP)

IEEE 802.1w(RSTP)

IEEE 802.1X(Port security)

-Switching Properties

Priority Queues 8

Number of VLANs 4K

VLAN ID 1～4093

Number of multicast groups 64

Routing table 4K

MAC Table 16K

Buffer 4Mbit

Forwarding rate 17.9Mpps

Switching latency <10μs

-Interface

Port configuration

2×10/100/1000Base-TX

2×10/100/1000Base-TX Combo

20×10/100Base-TX

Console RS232

LED 28 channels LED control interface

GPIO 15 channels GPIO interface

-LED indicators

Runing LED: Run

Ring LED: Ring

Power LED: PWR

Port LED: Link/ACT

-Power

Input: 5VDC(The effective value of power ripple less should than 50mV, and the voltage fluctuation should less than 5%)

Power Consumption: less than 20W

-Physical characteristics

Installation method: Embedded

Dimensions: 95×80×15.9 mm(W×H×D)

-Environment

Operating temperature: -40℃~+70℃

Storage temperature: -40℃~+85℃

Ambient relative humidity: 5~95% non-condensing

-Warranty

Warranty Period: 5 years

-Industrial standards

EMI

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS

IEC61000-4-2 (ESD) ±6kV (contact), ±8kV (air)

IEC61000-4-3 (RS) 20V/m (80MHz-2GHz)

IEC61000-4-4 (EFT) Power Port: ±2kV; Data Port: ±2kV

IEC61000-4-5 (Surge) Power Port: ±1kV/DM, ±2kV/CM

IEC61000-4-6 (CS)10V (150kHz-80MHz)

IEC61000-4-8(Power frequency magnetic field)50Hz 100A/m

IEC61000-4-9(Pulsed magnetic field)300A/m

IEC61000-4-29 (Voltage Short interruptions) 10ms 100%

IEC61373-2010(Shock and Vibration)

≫ Mechanical Drawing

名称：XXXXXX
IP：XXX.XXX.X.X
型号：XXXX-XX-XXXX
SN：XXXXX-XXXX-XXXX
MAC：XX.XX.XX.XX.XX.XX

80.00mm

95.00mm
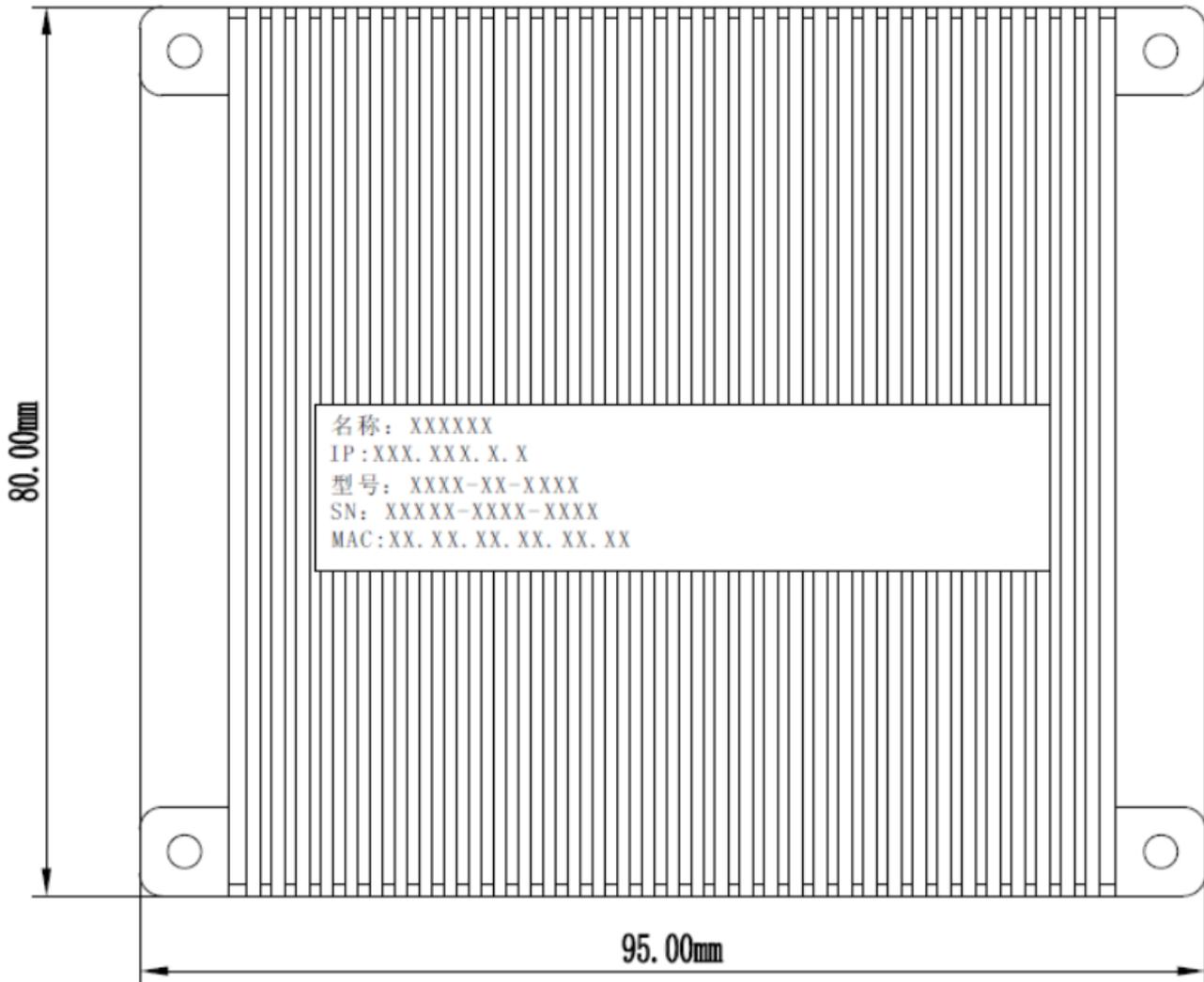
≫ Ordering Information

Model	SICOM2000-Layer-Coating-Ports
Code Definition	Ordering Codes
Layer:	L2: Layer 2 Management model
Coating:	C: Three anti-paint coating; N/A: No anti-paint coating

Ports:	2G2GE20T=2×1000Base-X,10/100/1000Base-T(X) Combo ports; 2×10/100/1000Base-T(X) RJ45 ports; 20×10/100Base-T(X) RJ45 ports

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