

ISM515-2D-2C

5-port Embedded Managed Industrial Ethernet Switch Module

Product description

ISM515 low power consumption simple network management type 100M industrial Ethernet switch embedded module is designed for customers to quickly integrate industrial Ethernet switches, RS-485 / RS-232 and CAN communication on industrial sites. The module is small in size and powerful in function, suitable for flexible and on-site industrial field applications, and meets the needs of customers for continuous innovation to increase value-added applications.



Features:

- 5 *10/100M ports, any configuration of fiber and copper port;
- Support 2 serial ports + 2 CAN bus ports + debug port;
- Support MW-Ring ring network patent technology (failure recovery time is less than 20ms);
- Support VLAN, QoS, port aggregation, IGMP and other functions;
- Support broadcast storm suppression and port rate control functions;
- Support software online upgrade, configuration file import and export function;
- Support user secondary development;
- Support one key to restore factory settings;
- Support industrial grade power input, low power design;
- Industrial grade wide temperature design, fanless thermal design.

Product specification

Software performance

Switch Function	Support VLAN/IEEE 802.1Q VLAN Support Rate limit Support broadcast storm suppression.
Redundancy protocol	Support MW-Ring and the recovery time<20 ms. Support RSTP/STP
Multicast routing	Support static multicast
Service quality management	Support QoS priority
Management and maintenance	Support Web management methods Support SNMPv1/v2c Support software upgrade Support host computer IP/MAC conflict alarm Support power failure alarm/power alarm/port alarm/support port mirroring Support log viewing Support Link-check Support NTP Support accept frame transmission frame statistics

Technical specifications

Ethernet Standard	IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.3z-1000BaseLX IEEE802.1D -Spanning Tree Protocol IEEE802.1w -Rapid Spanning Tree Protocol IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service
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Switch properties

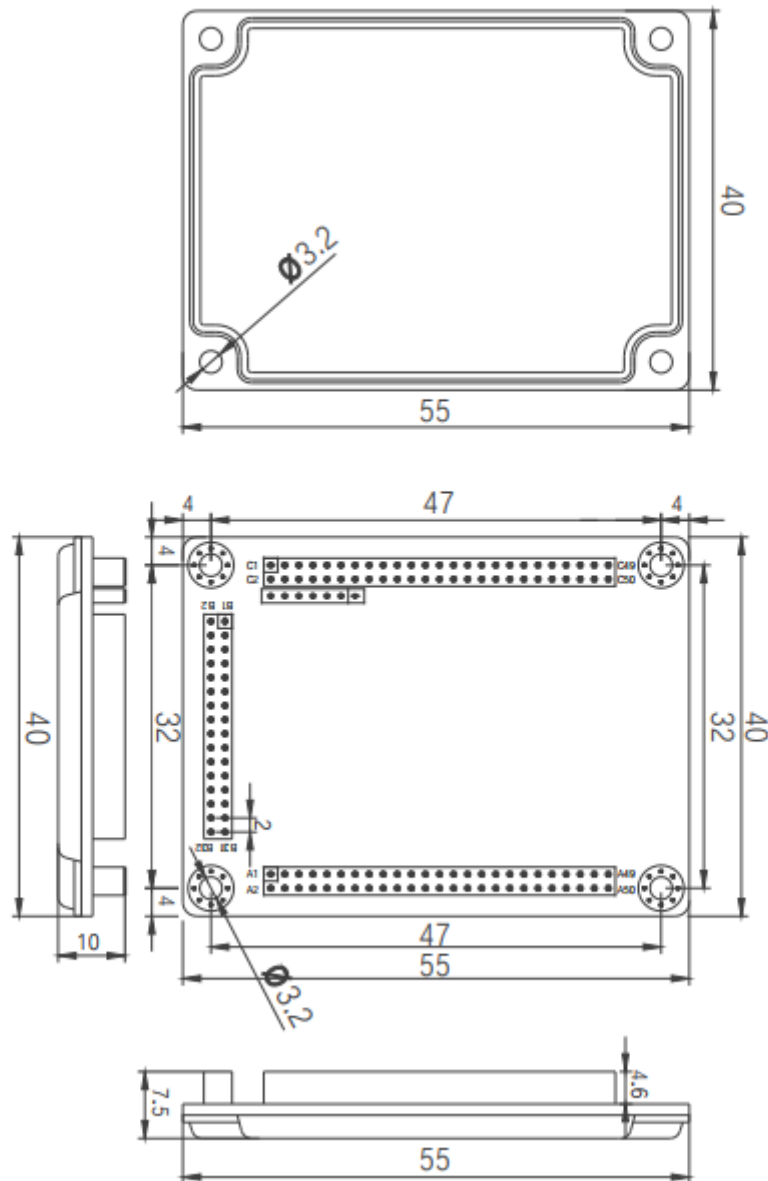
Priority queue	4
VLAN Number	4096
IGMP Groups	256
MAC table	2k
Switch Bandwidth	1.0Gbps
Switch Latency	<5μs
Rate limiting granularity	64kbps

Interface

Ethernet port	5x100M port, fiber and copper ports available
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Data ports	2 RS232 or RS485 serial ports + 2 CAN ports
Debug interface	1 debug serial port
Alarm interface	2 channels 3.3V TTL level monitoring signal input, 1 channel TTL level monitoring signal output
Function	
Serial server function	Support 4 serial ports, support RS232 / RS485 Support TCP client, TCP server, UDP mode and multicast mode Baud rate: 2400bps ~ 115200bps
CAN server function	Support 2 way CAN server Support Normal / Listen Only mode
Power Requirements	
Power input	DC3.3V
Power consumption	<1W
Working Environment	
Operating Temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Ambient Humidity	5%~95%(non-condensing)
Physical Characteristics	
Shell	None
Signal pin	One row of 32-pin, two rows of 50-pin 2mm pitch double row female
Dimension	55mmx40mmx10mm
Warranty	
Warranty period	5 Years
Certification	CE, FCC, RoHS

Dimensional drawing



Embedded Installation (Unit: mm)

Ordering information

ISM515-2D-2C	5x 10/100M ports + 2 serial ports + 2 CAN bus ports, core module
ISM5105-2F-2D-2C DEMO	2 *10/100M Fx ports + 3 *10/100M Tx ports + 4 serial ports + 2 CAN bus ports + 1 LVTTTL relay output, standard demonstration board