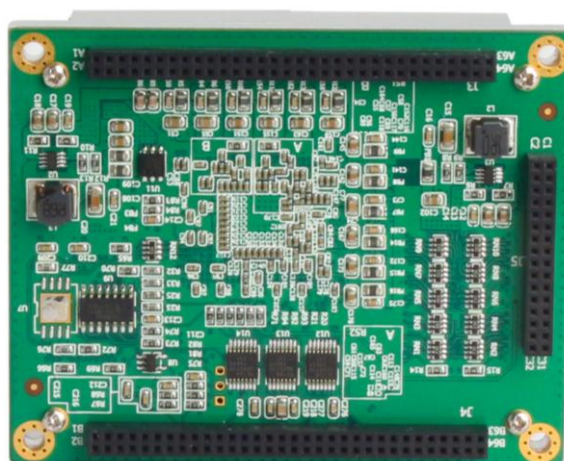


ISM7112G-4GF-8GT

12-Port Full Gigabit Embedded Industrial Ethernet Switch Module

Product description

ISM7112G intelligent full Gigabit embedded Ethernet switch module is designed and developed for industrial high-speed communication network applications. This switch provides a high-end industrial Ethernet communication solution for flexible industrial applications, breaking the 100M backbone network communication bottleneck, making industrial communication smoother, more reliable and faster.



Features:

- 8 Gigabit copper ports, 4 Gigabit SFP ports;
- Supports multiple redundant networking mechanisms such as MW-Ring, STP, RSTP, MSTP, and EAPS;
- Support VLAN, port aggregation, IGMP and other functions;
- Supports perfect QoS policies and multiple priority queue scheduling algorithms, and supports ACL access control lists;
- Support broadcast storm suppression and port rate control functions;
- Support software online upgrade, configuration file import and export function;
- Support user secondary development;
- Industrial grade wide temperature design, fanless thermal design.

Product specification

Software performance

| | |
|----------------------------|--|
| Exchange function | Support port speed limit Support port aggregation Support port flow control Support port VLAN, IEEE 802.1Q VLAN Support broadcast storm suppression |
| Redundancy protocol | Support MW-Ring and the recovery time<20 ms. Support STP/RSTP |
| Multicast routing | Support IGMP snooping Support static multicast |
| safety technology | Support IEEE 802.1x Support HTTP, HTTPS Support RADIUS Support user rating Support MAC address binding |
| Service quality management | Support SP, WRR queue scheduling Support QoS settings |
| IP management | Support DHCP server |
| Management and maintenance | Support Console, WEB management Support SNMPv1/v2c, which can be managed centrally by Maiwe PC 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

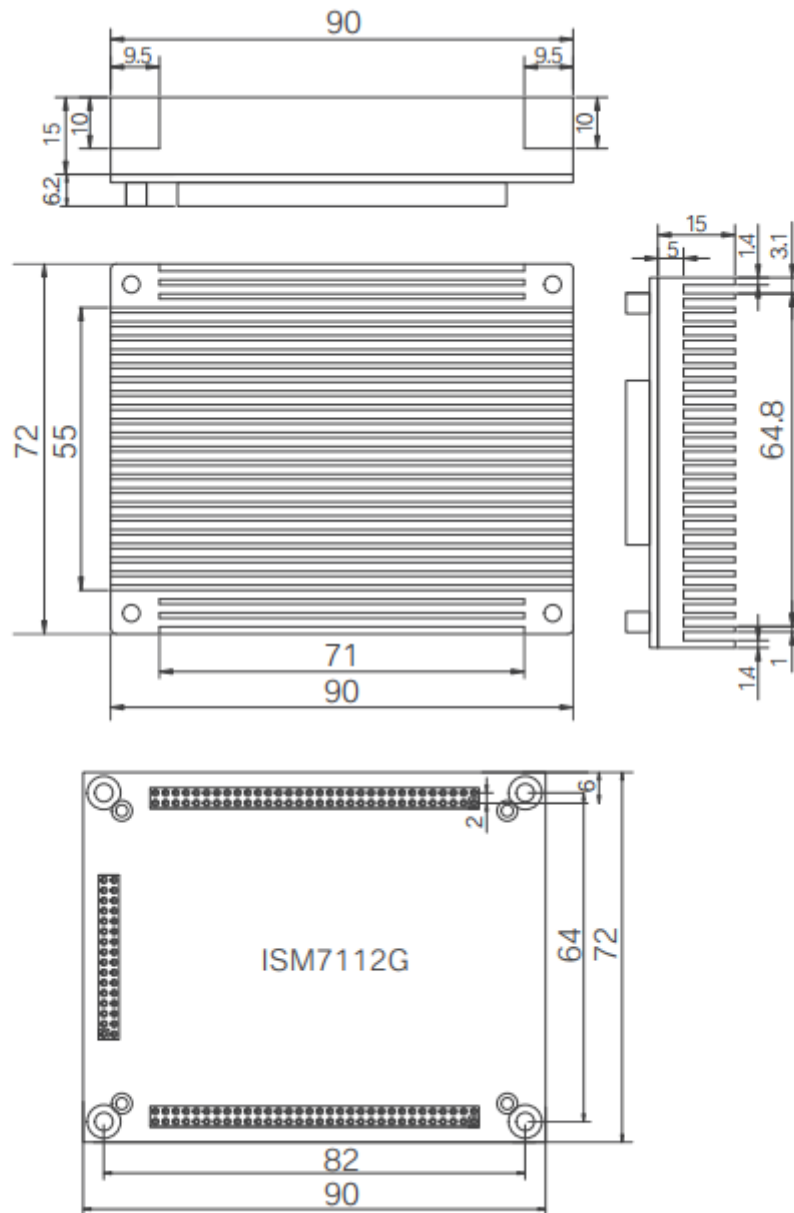
| | |
|-------------------|---|
| Ethernet Standard | IEEE802.3 (Ethernet), IEEE802.3u (100Base-TX and 100Base-FX), IEEE802.3x (flow control), IEEE802.3ab (1000Base-T), IEEE802.3z (1000Base-LX) (1000Base-T), IEEE 802.1D (STP), IEEE 802.1w (RSTP), IEEE 802.1Q (VLAN), IEEE 802.1p (priority), IEEE 802.1x (access control) |
|-------------------|---|

Switch properties

| | |
|----------------|---|
| Priority queue | 4 |
|----------------|---|

| | |
|---------------------------------|--|
| Number of VLANs | 4096 |
| Number of multicast groups | 512 |
| MAC table | 8k |
| Switch Bandwidth | 24Gbps |
| Packet forwarding rate | 29.76Mbps |
| Switch Delay | <5μs |
| Interface | |
| Gigabit ports | Port numbers:12 |
| | Connector: SFP type fiber port(LC interface, single or multi-mode), or RJ45 type copper port |
| | Baud rate:1000Base-LX(fiber port), adaptive 10/100/1000M-Tx port |
| Indicator lights | External indicator light, support system indicator, network management operation indicator, ring network indicator |
| Functions | |
| Reset function | Support |
| Restore Factory | Support hardware/software factory reset |
| Power Requirements | |
| Power input | DC3.3V(+5%) |
| Power consumption | <10W |
| Working Environment | |
| Operating Temperature | -40°C~70°C |
| Storage temperature | -40°C~85°C |
| Ambient Humidity | 5%~95%(non-condensing) |
| Physical Characteristics | |
| Shell | None |
| Installation | One row of 32-pin, two rows of 64-pin 2mm pitch double row female |
| Dimension | 90mm×72mm×21.6mm |
| Warranty | |
| Warranty period | 5 Years |
| Certification | CE, FCC, RoHS |

Dimensional drawing



One row of 32-pin, two rows of 64-pin 2mm pitch double row female (Unit: mm)

Ordering information

| | |
|-----------------------|--|
| ISM7112G-4GF-8GT | 4 Gigabit fiber ports + 8 Gigabit copper ports, core modules |
| ISM7112G-4GF-8GT DEMO | 4 Gigabit fiber ports + 8 Gigabit copper ports, standard demonstration board |