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# **ISG2510**

10-Port Gigabit L2 Managed Industry Swtich

## Products Description

ISG2510 is a full Gigabit AI managed industrial switch. Supports 8 Gigabit Ethernet ports and 2 Gigabit optical ports; supports the Ethernet Layer 2 protocol required by the industrial site to ensure the stability of the communication network; this series of switches adopts low power consumption and fanless design to ensure no Noise interference, while supporting -40～85℃ working temperature and good EMC electromagnetic compatibility performance, ensuring stable work in harsh industrial environments, and building a fast and stable network for industrial applications such as factory automation, intelligent transportation, video surveillance, etc. The terminal access network provides a safe and reliable solution.

## Products Appearance

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| **ISG2510**8\*10/100/1000 Base-T ports 2\* 1000 Base-X SFP ports.IP40,-40°C～85°C. |  |

## Main Features

* **Strong "core"**

The international mainstream industrial-grade high-performance switching chip is adopted, and all components are in accordance with industrial-grade standards to ensure that the product works stably in various harsh environments.

* **Hardware protection**

The working temperature of -40℃-85℃, whether it is severe cold or scorching heat, meets the application requirements of harsh industrial environments.

It meets the EMC4 standard, IP40 or higher protection level, and has strong dust-proof, anti-seismic, anti-interference and anti-corrosion capabilities to ensure stable operation under various harsh working conditions.

* **Convenient design**

Using fanless heat conduction design and holeless heat dissipation technology, the equipment has an average failure time of more than 30 years, which is more durable

The uplink port adopts a gigabit photoelectric hybrid design, and the optical port uses an SFP interface, which is convenient for common optical fiber port applications.

* **Industry business characteristics**

Supports autonomous ring network redundancy technology, the failure recovery time is less than 20ms, greatly enhances the equipment and network reliability, eliminates single points of failure, and avoids communication terminals.

The primary and secondary loop protection can effectively prevent the entire network loop caused by wrong construction and artificial connection.

* **Software security protection strategy**

It supports flexible binding of MAC, IP, VLAN, and PORT in any combination, effectively preventing illegal users from accessing and accessing the network.

* **Various management methods**

Support CLI command line configuration mode in Telnet and Console.

Support Web, SNMP configuration mode, more convenient realization of equipment network management.

## Product Specifications

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| **Product Information** |
| Product Model | **ISG2510** |
| **Hardware specifications** |
| Ports | 8\*10/100/1000 Base-T ports 2\* 1000 Base-X SFP ports. |
| Consloe | 1 |
| Operating temperature | -40~75°C |
| Storage temperature | -40~85°C |
| Relative humidity | 5%～95% No condensation |
| Power characteristics | Output : DC 12-52VSupport dual power supply redundancySupport built-in overcurrent 4.0A protectionSupport reverse connection protection |
| Packet buffer | 4.1M |
| MAC Address | 16K |
| Whole machine power consumption | <10W |
| Network protocol | IEEE802.3 10BASE-T.IEEE802.3i 10Base-T.IEEE802.3u.100Base-TX/FX.IEEE802.3ab 1000Base-T.IEEE802.3z 1000Base-X.IEEE802.3x. |
| Industry Standard | EMI :FCC Part 15 Subpart B Class A，EN 55022 Class AEMS :IEC(EN)61000-4-2(ESD):±8kV contact discharge,±15kV air dischargeIEC(EN)61000-4-3(RS):10V/m(80～1000MHz)IEC(EN)61000-4-4(EFT):power cable:±4kV.data cable : ±2kVIEC(EN)61000-4-5(Surge):power cable:±4kV CM/±2kV DM . data cable:±2kVIEC(EN)61000-4-6(Radio frequency conduction):3V(10kHz～150kHz),10V(150kHz～80MHz)IEC(EN)61000-4-16(Common mode conduction):30V cont. 300V,1sIEC(EN )61000-4-8Shock:IEC 60068-2-27Freefall:IEC 60068-2-32Vibration:IEC 60068-2-6 |
| Mechanical properties | Housing: metal Installation: DIN rail type, wall-mounted installationCooling method: natural cooling, no fan |
| Size | 179(L)\*134(W)\*46(H)mm |
| Protection level | IP40 |
| Mean time between failures | 300,000 hours |
| **Software specifications** |
| Forwarding mode | Store-and-forward |
| Protocol and Standards | IEEE 802.3, 10 Base-T Ethernet. |
| IEEE 802.3u,100 BASE-TX. |
| IEEE 802.3ab,1000 BASE-T. |
| IEEE 802.3z,1000 BASE-X. |
| IEEE 802.3az,EEE(Energy Efficient Ethernet). |
| MAC Address  | 16K MAC addresses,Support auto-update, two-way learning |
| VLAN | Based Port VLAN |
| Up to 4096 VLAN |
| VLANs based on IEEE 802.1q |
| Spanning Tree | STP Spanning Tree Protocol |
| RSTP Rapid Spanning Tree Protocol  |
| Port Aggregation | 8 aggregation groups,each containing up to 8 ports. |
| Port Mirroring | Send and receive two-way port mirroring |
| Ring network protocol | support |
| Support ring protection |
| Support for Downward Multiring |
| Port IsolationPort stream control | Downlink ports are isolated from each other and can communicate with uplink |
| Half duplex based on backpressure control |
| Full duplex based on PAUSE frames |
| Port speed limit | Port Based Input / Output Bandwidth Management |
| Multicast control | IGMPv1/2/3 and MLDv1/2 Snooping |
| IPv6 | Pingv6 |
| DHCP | DHCP Snooping |
| Storm suppression | Storm suppression for unknown Unicast, multicast, multicast, broadcast type |
| Storm suppression based on bandwidth regulation and storm filtering |
| Security features | Based on Vlan, MAC binding |
| ACL Based on IP and MAC |
| Security limit on the number of MAC addresses based on ports |
| QOS | 802.1 P Port Queue Priority Algorithm |
| Cos/Tos,QOS tags |
| WRR (Weighted Round Robin) |
| Line order | Auto-MDIX, Automatic identification of straight and cross lines |
| Ping Detection | IPv4/IPv6 Ping Detection |
| Modalities for consultation | Port automatic negotiation |
| System maintenance | Detection of connectivity |
| Upgrade package upload |
| See System log |
| WEB factory configuration restored |
| Management  | WEB-based interface management  |
| Telnet |
| CLI Management (Command Line Interface) |
| SNMP |

## Order Information

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| **Product Information** | **Detailed information** |
| ISG2510 | 8\*10/100/1000 Base-T ports , 2\* 1000 Base-X SFP ports. |

## Product Application



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