



# **USR-ISG** series Switch Specifications

5/8/16-Port Unmanaged Industrial Switch

**Build a Smarter IOT world, Your Trustworthy Partner** 

The USR-ISG Series Switch is designed to meet power, size, weight and environmental endurance requirements for industrial applications. Built with rugged metal housing and protective coating, the ISG series Din Rail type industrial Ethernet switch is compression and corrosion resistant. It features fan-less cooling and IP40 protection rating, dust and dirt proof, enterprise-level wire-speed forwarding performance and works in a wide temperature range of -40°C~+85°C. Its EMC reaches level 3. It is equipped with industrial-grade redundant DC power supply and a wide range of voltage input. USR-ISG Series Layer 2 unmanaged industrial Ethernet switch consists of ISG005,ISG008,ISG008P,ISG 016 gigabit models. Plug and play to meet the needs of harsh industrial environments. Basically meet the needs of electric power, transportation, industrial control and other different industrial sites.

#### **Features**

- Supports 12-52V wide voltage input, with reverse polarity protection, Overload Protection.
- 10/100/1000M Base-T(X) Adaptive Port Support Full/Half Duplex, MDI/MDIX Auto Connection
- Compliant with EMC industry level 3 standards
- -40°C ~85°C Operating Temperature
- MTBF is over 300000 hours
- Strong metal cabinet with corrosion-proof coating
- Redundant power and wide voltage input ensure stable communications in severe environments
- Plug and play, enables fast deployment

#### Dimensions(mm)

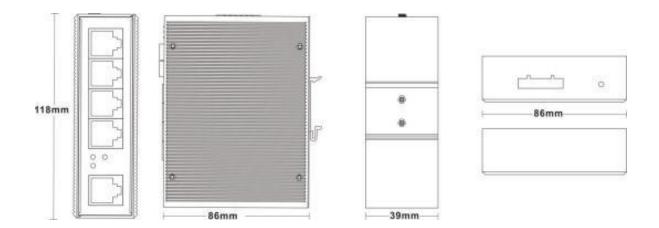


Fig. 1 USR-ISG005

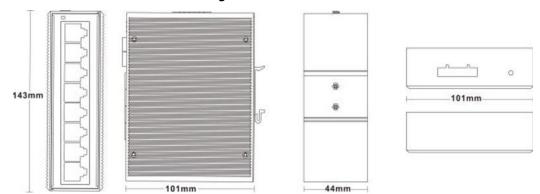


Fig. 2 USR-ISG008/008P

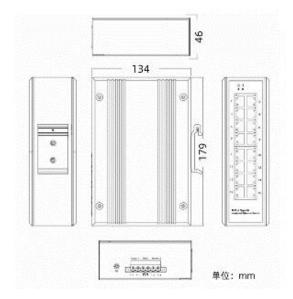


Fig. 3 USR-ISG016

## Specifications

| Model                    | USR-ISG005  | USR-ISG008   | USR-ISG008P  | USR-ISG016   |
|--------------------------|---|--------------|--|--------------|
| Port numbers             | 5   | 8            | 8  | 16           |
| Protocol Standard        | IEEE 802.3 for 10Base-T IEEE 802.3 i for 10Base-T IEEE 802.3 i for 100Base-TX and 100BaseFX IEEE 802.3 z for 1000Base-X IEEE 802.3 ab for 1000Base-T IEEE 802.3 x for Flow Control IEEE 802.3 af for PoE IEEE 802.3 at for PoE+ |              |  |              |
| Interface                | Gigabit copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotunning   |              |  |              |
| POE                      | /   | /            | The maximum power of PoE port: 30W(IEEE 802.3at) 15.4W(IEEE 802.3af) The power supply pin of PoE: V+, V+, V-, V-correspond to Pin 1, 2, 3, 6 | /            |
| MAC address table        | 1K  |              |  | 8K           |
| Backplane<br>bandwidth   | 10Gbps 20Gbps   |              | 56Gbps   |              |
| Switch Latency           | <5 µs   |              |  | <10 µs       |
| Forwarding Rate          | 7.4Mpps   | pps 11.9Mpps |  | 23.80Mpps    |
| Packet Cache             | 512Kb 4Mb   |              |  | 4Mb          |
| Transfer Distance        | Twisted cable: 80M (standard CAT5e/CAT6 cable)  |              | )  |              |
| Power supply             | DC12-52V  | DC12-52V     | DC48-57V(POE)  | DC12-52V     |
| Interface Terminal       | 6-pin pluggable screw terminal block  |              |  |              |
| Power Consumption        | <3W   | <3W          | <3W(disable POE)   | <15W         |
| Dimension                | 130x95x33.5mm   | 156x113x48mm | 156x113x48mm   | 191x144x46mm |
| Weight                   | 0.35kg  | 0.55kg       | 0.55kg   | 0.9kg        |
| Installation             | Standard 35mm DIN-rail Mounting   |              |  |              |
| Shell                    | IP40 protection, metal  |              |  |              |
| Operating<br>temperature | -40°C~85°C  |              |  |              |
| Storage temperature      | -40°C~85°C  |              |  |              |

| Ambient humidity | 5% ~ 95% (no condensation) |  |
|------------------|----------------------------|--|
| MTBF             | 300000 hours               |  |
| Warranty         | 5 Years                    |  |
| Certification    | CE, FCC, RoHS              |  |

#### Ordering Guide

| Model       | Ethernet Port                                     |
|-------------|---|
| USR-ISG005  | 5 * 10/100/1000 Base-T(X) adaptive RJ45 ports     |
| USR-ISG008  | 8 * 10/100/1000 Base-T(X) adaptive RJ45 ports     |
| USR-ISG008P | 8 * 10/100/1000 Base-T(X) adaptive RJ45 PoE ports |
| USR-ISG016  | 16 * 10/100/1000 Base-T(X) adaptive RJ45 ports    |

## Purchase & Support

• Official shop Chile: <a href="https://altronics.cl">https://altronics.cl</a>

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