

## Industry Unmanaged Industrial Switch

### Product Introduction

Security Industry DIN-Rail Unmanaged Industrial Switches can at most support 4 100/1000BaseX SFP ports + 8 10/100/1000BaseT ports, which are specially designed for harsh industrial environments, providing economic solutions for industrial Ethernet connections. The working temperature of these switches is  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ .

Security Industry DIN-Rail Unmanaged Industrial Switches adopt redundant dual power inputs, 9.6~60VDC and 18~30VAC, DIN-Rail mounted. With rugged aluminum alloy housing, IP40 protection class, these switches passed the high level tests of EMI/EMC. And all the models have gone through strict aging test, meeting the requirements of security industry.

## Features and Benefits

- Multiple port options
- Backplane bandwidth can be up to 52Gbps
- Wide and varied power supply range
- Non-rust aluminum alloy housing and torx screws
- All ports support wire-speed forwarding and automatic turnover, supporting long-distance transmission
- Lightning protection: power supply  $\pm 4\text{KV}$ , RJ45 port  $\pm 4\text{KV}$
- IP40 protection class
- Small and easy to install, plug and play without configuring
- Fanless design, wide working temperature and quiet operation
- MTBF  $\geq 300,000\text{h}$

## Switch Properties

|                      |  |
|----------------------|--|
| Backplane Bandwidth: | 52Gbps (12 ports, 4 100/1000BaseX SFP + 8 10/100/1000BaseT ports ) |
| Switch Architecture: | Store-Forward  |
| MAC Table Size:      | 8K   |
| Buffer Size:         | 4.1Mbit  |
| Exchange Rate:       | 148,800 pps/100M port; 1,488,000 pps/1000M port                    |

## Power Parameters

|                              |                                       |
|------------------------------|---------------------------------------|
| Connection:                  | 5-PIN terminal block                  |
| Input Voltage:               | 9.6 ~ 60VDC & 18 ~ 30VAC, dual inputs |
| Overload Current Protection: | Supported                             |
| Reverse Polarity Protection: | Supported                             |

## Physical Performance

|                        |                        |
|------------------------|------------------------|
| Installation:          | DIN-Rail Mounted       |
| Housing:               | Aluminum Alloy Housing |
| Protection Class:      | IP40                   |
| Dimensions (W × H × D) | 50mm × 140mm × 110mm   |
| Weight:                | < 0.75kg               |

## Mechanical Characteristics

|                |                 |
|----------------|-----------------|
| Vibration:     | IEC 60068-2-6   |
| Shock:         | IEC 60068-2-27  |
| Free-all:      | IEC 60068-2-31  |
| Circuit Board: | Approved by IPC |

## Environment Limits

|                        |               |
|------------------------|---------------|
| Storage Temperature:   | -40°C ~ +85°C |
| Operating Temperature: | -40°C ~ +85°C |

|                   |          |                           |
|-------------------|----------|---------------------------|
| Ambient Humidity: | Relative | 5% ~ 95% (Non-condensing) |
|-------------------|----------|---------------------------|

Industrial Switch

## Electromagnetic Characteristics

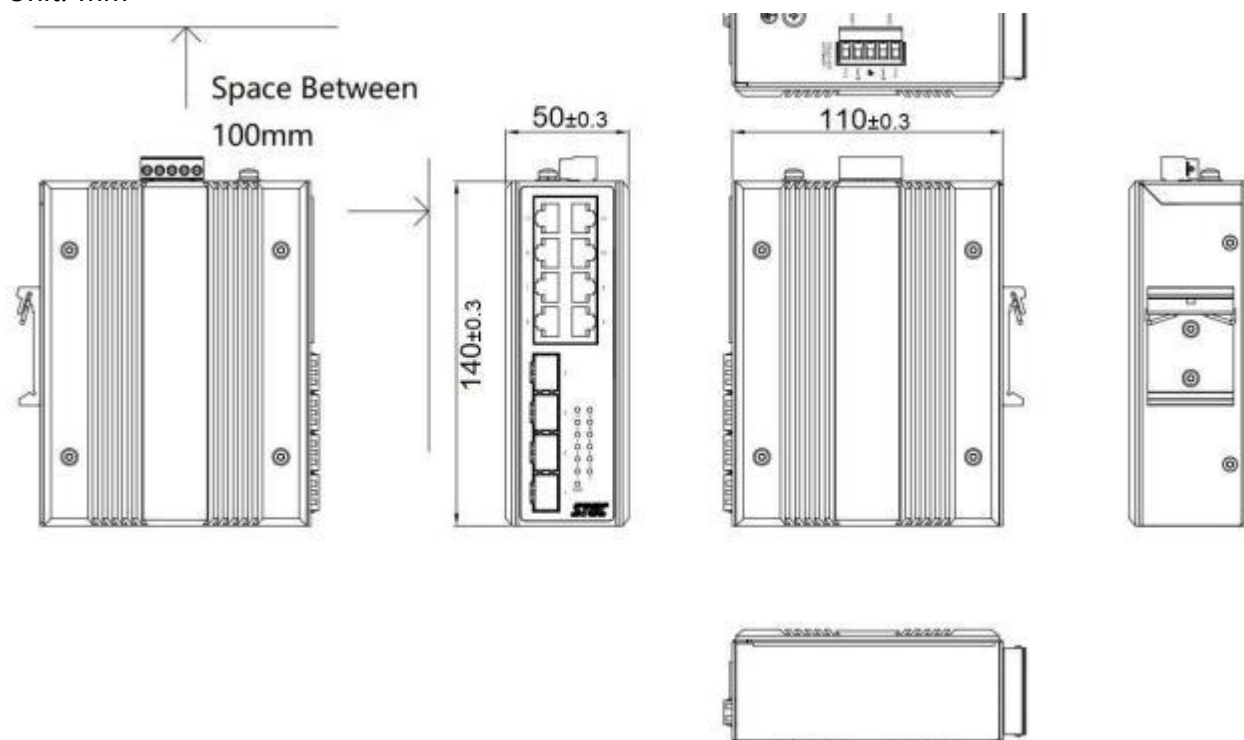
|      |                            |
|------|----------------------------|
| EMI: | FCC 47 CFR Part 15 Class A |
|      | EN55032 Class A            |
|      | EN55035 Class A            |
| EMC: | IEC(EN)61000-4-2, Class 4  |
|      | IEC(EN)61000-4-4, Class 4  |
|      | IEC(EN)61000-4-5, Class 4  |
|      | IEC(EN)61000-4-6, Class 3  |
|      | IEC(EN)61000-4-8, Class 5  |

## Industrial Certification and Test

|                 |  |
|-----------------|--|
| Product Safety: | EN 62368-1   |
| EMC:            | EN 55032<br>EN 55035<br>EN IEC61000-3-2<br>EN 61000-3-3<br>FCC Part 15 Subpart B Class A |
| Others:         | Test Report from Ministry of Public Security, Network Access License, RoHS               |

## Dimensions

Unit: mm



## Ordering Information

| P/N             | Description  |
|-----------------|--|
| USR-ISG1408-SFP | 12-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 4 100/1000BaseX SFP ports (SFP module not included) + 8 10/100/1000BaseT ports. DIN-Rail mounted. IP40 protection class. Operating temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ . Dual redundant power inputs, 9.6~60VDC & 18~30VAC. |



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