Security Industry DIN-Rail WEB Managed Industrial Switch

Security Industry DIN-Rail WEB Managed Industrial Switches at most can support 4 100/1000BaseX SFP ports + 8 10/100/1000BaseT ports, which are specially designed for harsh environments, providing economic solutions for industrial Ethernet connections. The working temperature of these switches is -25°C ~ +75°C.

Security Industry DIN-Rail WEB Managed Industry 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

- All 1000M ports
- 52Gbps backplane bandwidth
- Wide and varied power supply range
- Non-rust aluminum alloy housing and torx screws
- Support WEB Management
- All ports support line speed forwarding and automatic turnover, supporting long-distance transmission
- Support one-click port isolation and self-healing ring network
- Support one-click factory settings restoration and restart
- Support uploading and downloading configuration files
- Lightning protection: power supply ±4KV, RJ45 port ±4KV

- IP40 protection class
- Small and easy to install, plug and play without configuring
- Fanless design, wide working temperature and quiet operation
- MTBF ≥ 300,000h

Technical Specifications

- IEEE 802.3 CSMA/CD Method and Physical Layer Specifications
- IEEE 802.1p Priority Queuing
- IEEE 802.1q VLAN Tagging
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.3ac VLAN Tagging
- IEEE 802.3ad Link Aggregation
- IEEE 802.3x Flow Control
- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3z Gigabit Ethernet
- IEEE 802 Networks
- RFC 768 UDP
- RFC 791 IP
- RFC792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 862 Echo Protocol
- RFC 863 Discard Protocol
- RFC 1027 Using ARP to Implement Transparent Subnet Gateways
- RFC 1112 IGMP
- RFC 2068 HTTP
- RFC 2236 IGMPv2
- IGMP Snooping

Switch Properties

Backplane Bandwidth:	14Gbps (5/6 ports model) 20Gbps (10 ports model) 52Gbps (12 ports model)
Switch Architecture:	Store-Forward
MAC Table Size:	2K (5/6 ports model) 4K (10 ports model) 8K (12 ports model)
Buffer Size:	1Mbit (5/6 ports model) 1.5Mbit (10 ports model) 4.1Mbit (12 ports model)
Exchange Rate:	148,800 pps/100M port；1,488,000 pps/1000M port

Software Functions

Management Mode:	WEB based on HTTP, SNMPv1, SNMPv2
Diagnosis Mode:	Indicator Light, Journal File, Port Mirroring, TRAP
Redundancy:	RSTP
DIP Switch:	VLAN, RSTP
Others:	4K VLANS, IPv4 Multicast, storm control, support Jumbo Frame

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):	42mm × 110mm × 105mm (5/6 ports model) 42mm × 140mm × 110mm (10/12 ports model)
Weight:	<0.6kg

Mechanical Characteristics

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

Environment Limits

Storage Temperature:	-40°C ~ +85°C
Operating Temperature:	-25°C ~ +75°C
Ambient Relative Humidity:	5% ~ 95% (Non-condensing)

Electromagnetic Characteristics

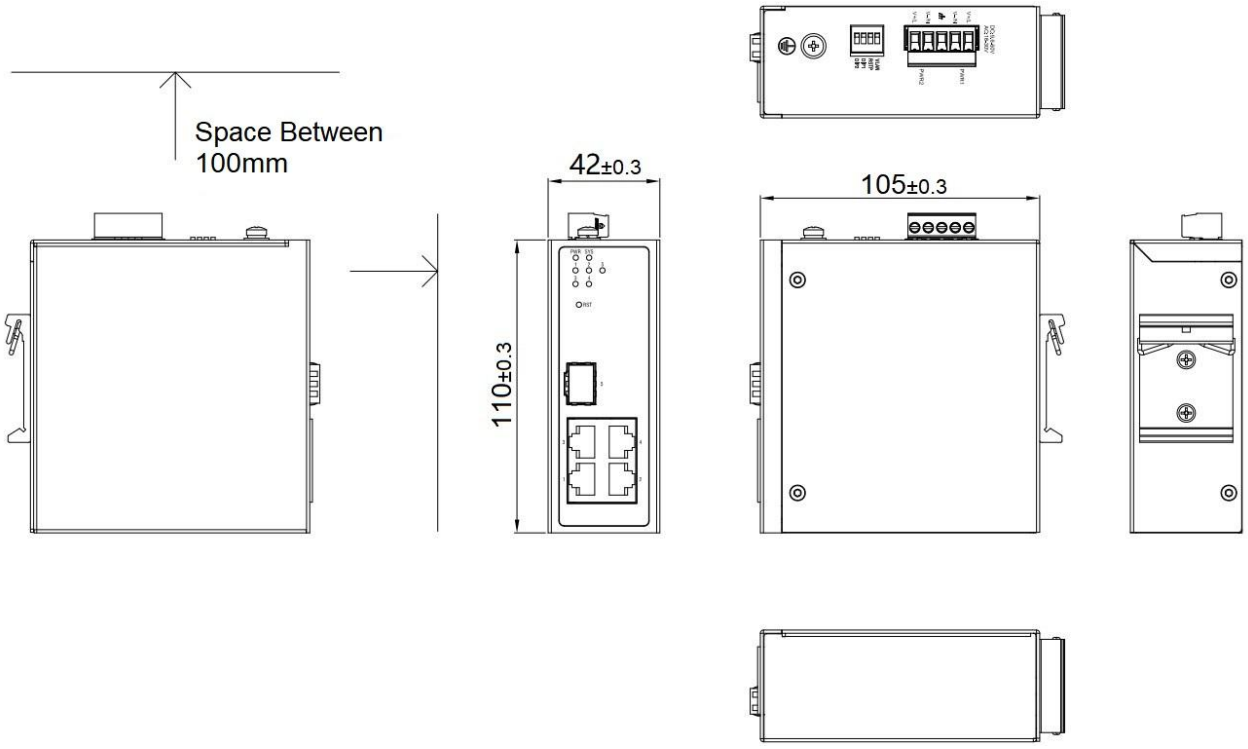
EMI:	FCC 47 CFR Part 15 Class A
	EN55032 Class A
	EN55035 Class A
EMC:	IEC(EN)61000-4-2, Class 4
	IEC(EN)61000-4-3, Class 3
	IEC(EN)61000-4-4, Class 4
	IEC(EN)61000-4-5, Class 4
	IEC(EN)61000-4-6, Class 3
	IEC(EN)61000-4-8, Class 5

Industrial Certification and Test

Product Safety:	EN 62368-1
EMC:	EN 55032 EN 55035 EN IEC61000-3-2 EN61000-3-3 FCC Part 15 Subpart B Class A
Others:	Test Report from Ministry of Public Security, Network Access License, RoHS

Dimensions

Unit: mm



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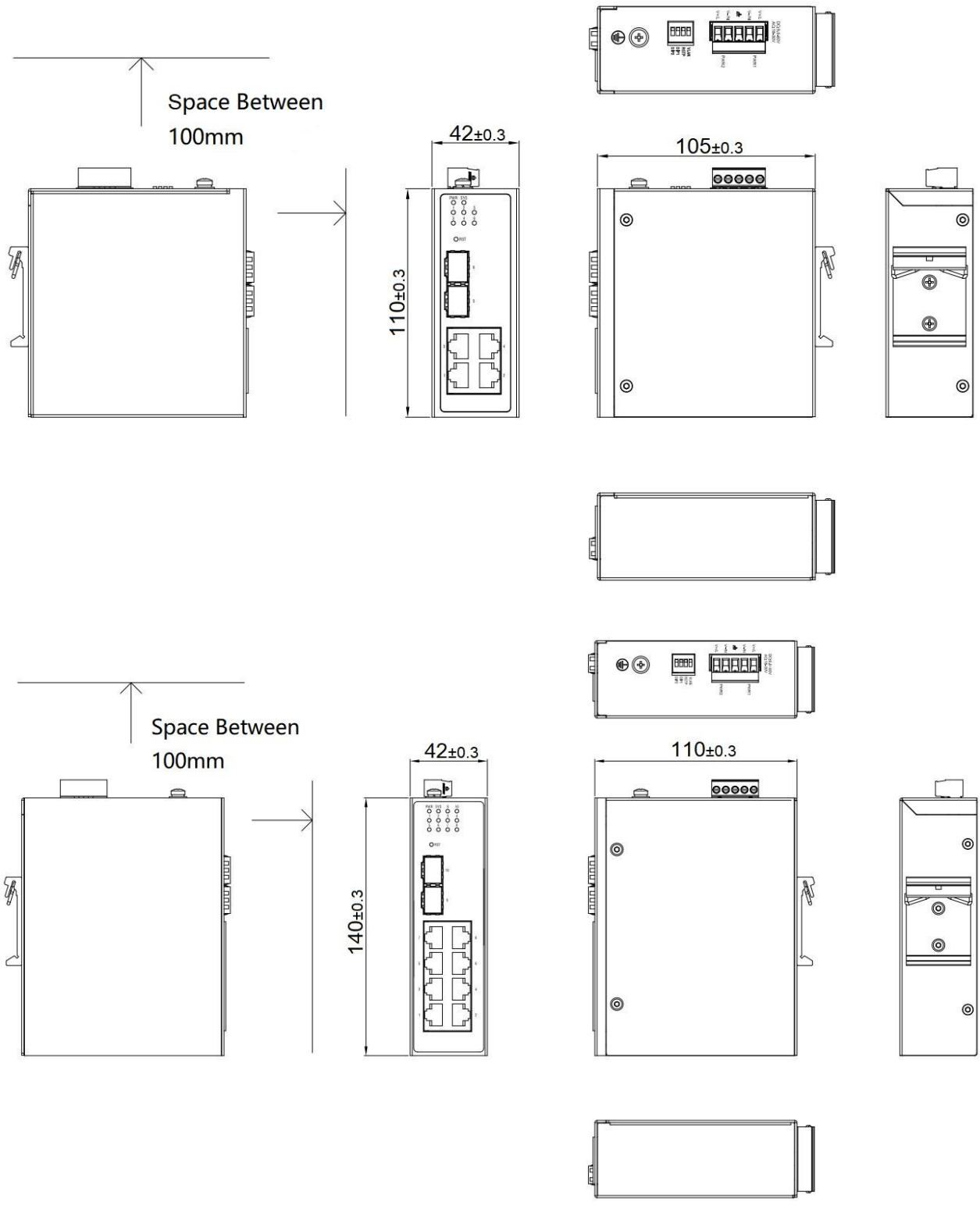

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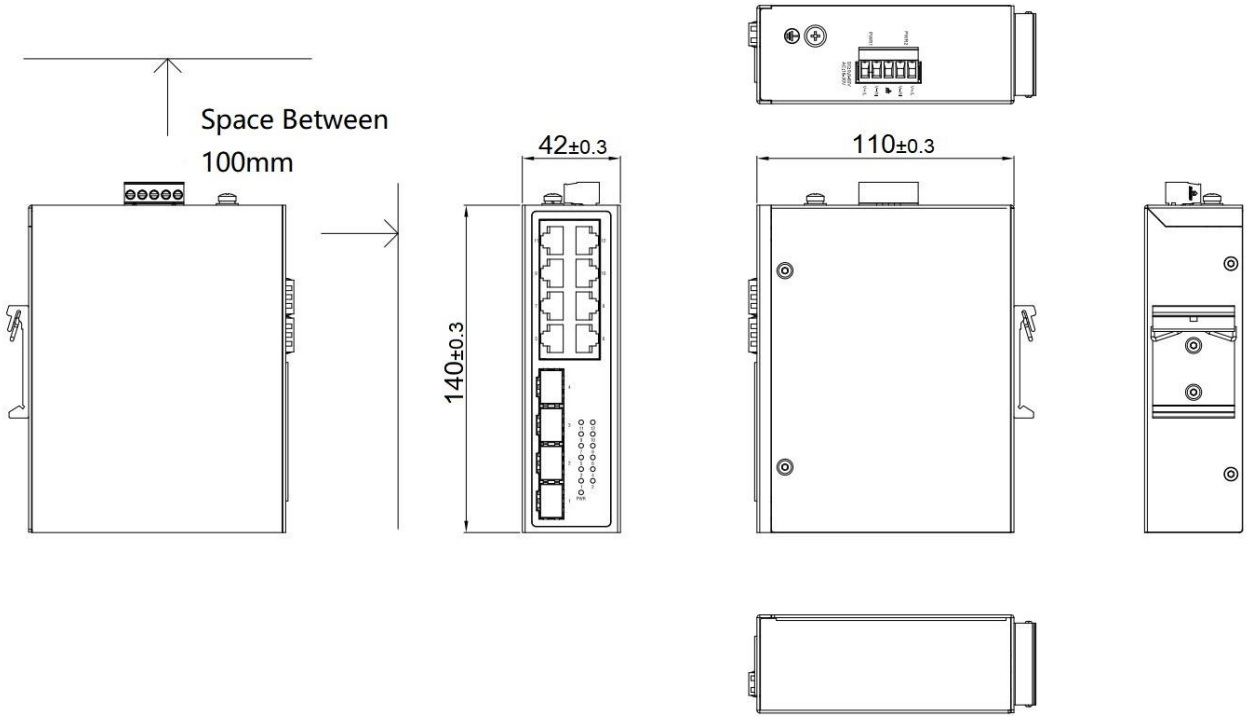

Ordering Information

P/N	Description
SDS300-W5R1040	5-Port DIN-Rail WEB Managed Industrial Switch made from Anti-Corrosion aluminum alloy, support 1 100/1000BaseX SFP ports (SFP module not included) + 4 10/100/1000BaseT ports. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-W6R2040	6-Port DIN-Rail WEB Managed Industrial Switch made from Anti-Corrosion aluminum alloy, support 2 100/1000BaseX SFP ports (SFP module not included) + 4 10/100/1000BaseT ports. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-W10R2080	10-Port DIN-Rail WEB Managed Industrial Switch made from Anti-Corrosion aluminum alloy, support 2 100/1000BaseX SFP ports (SFP module not included) + 8 10/100/1000BaseT ports. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-W12R4080	12-Port DIN-Rail WEB Managed Industrial Switch made from Anti-Corrosion aluminum alloy, support 4 100/1000BaseX SFP ports (SFP module not included) + 8 10/100/1000BaseT ports. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.

For More Information

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MRD reserves the right to change specifications without prior notice.