InHand Networks

Simple, highly reliable network communication system

ISE2008D Unmanaged Industrial Ethernet Switch

· Plug-and-play

· DIN-rail

· Fanless

· IP30

1. Product Overview

The ISE2008D is designed for power, transportation, industrial control, and demanding industrial environments.

Product Features:

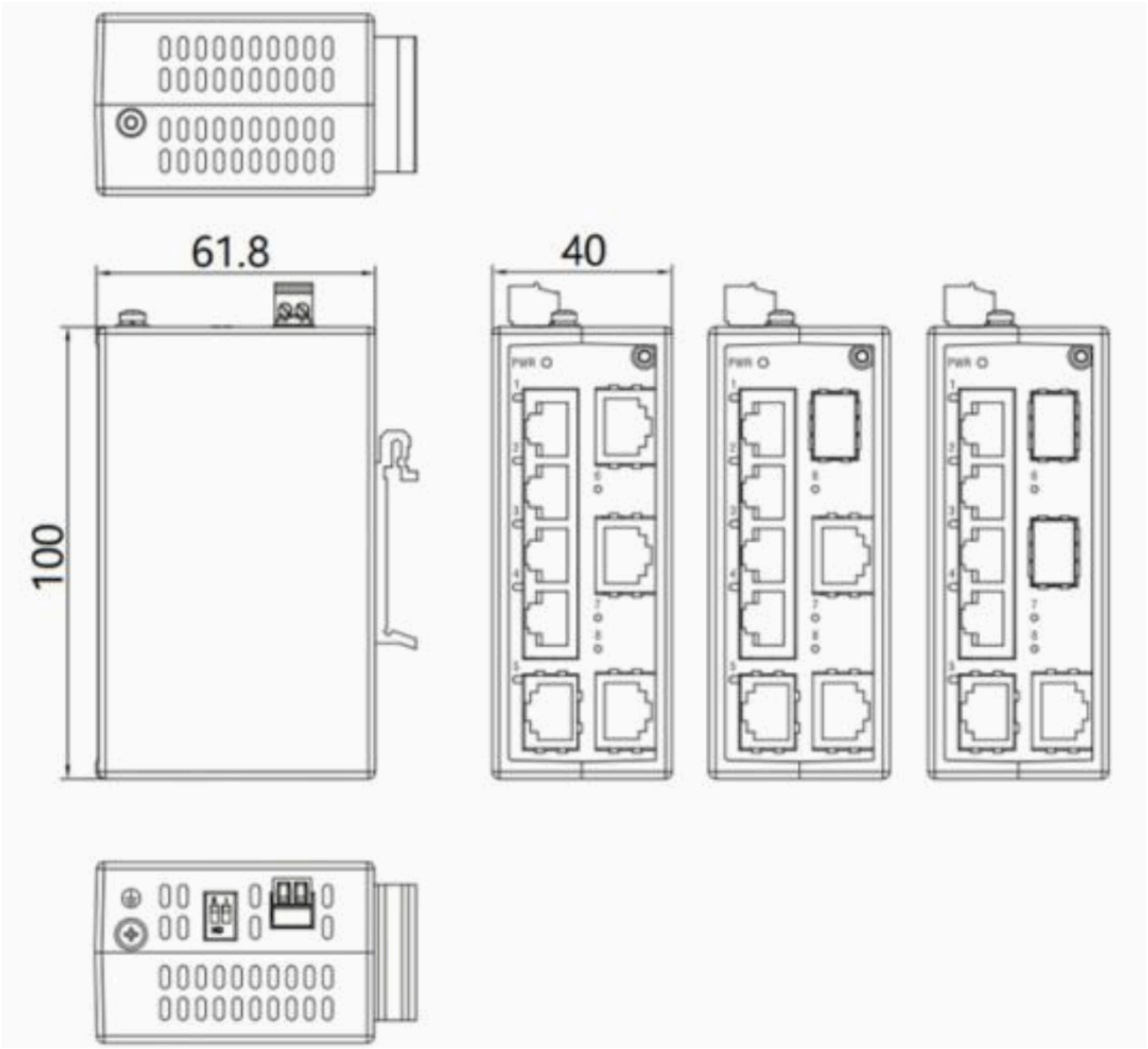
- **Robust Design:** Fully enclosed seamless metal casing, fanless design, IP30 protection rating.
- **Wide Adaptability:** Wide-temperature (-40 ~ +75℃) and wide-voltage (9.6-60VDC & 18-30VAC) design.
- **International Standard:** Complies with FCC, CE, ROHS, and UL standards with excellent EMC.
- **Smart Switching:** QoS and Broadcast Storm Protection (BSP), configurable via DIP switch.
- **Easy Deployment:** Plug-and-play, DIN rail mountable, compact size for quick deployment.

Key Technical Specifications

Parameter	Specification
Type	Unmanaged Industrial Ethernet Switch, Layer 2, Store-and-Forward
Ports	8 x 10/100 BaseT (or 2 x 100BaseX SFP + 6 x 10/100 BaseT)
Switching Performance	16 Gbps backplane bandwidth, 4K MAC, 1.5 Mbit buffer, <10 us latency
Dimensions / Weight	40 x 100 x 61.8 mm / 0.23 kg
Power	9.6-60 VDC & 18-30 VAC, 5 W
Environment	-40 to +75 C operating, IP30, fanless

Parameter	Specification
EMC	IEC 61000-4-2/3/4/5/6/8/18, Class 3-5
Certifications	CE, FCC, UL

2. Product Dimensions



ISE2008D

Note:

1. All dimensions are in millimeters (mm).
2. All dimensions are approximate and **for reference only**.

3. The dimensions shown in the figure **shall not be used for production or processing**.
4. Dimensions must comply with part and manufacturing tolerance requirements.
5. Dimensions are subject to change without notice.

3. Hardware Specifications

Category/Parameter	Specification
Physical Performance	
Enclosure	Fully enclosed seamless metal enclosure
Dimensions (W × D × H)	40 mm × 100 mm × 61.8 mm
Weight	0.23 kg
Mounting Method	DIN-rail mounting
Cooling Method	Fanless cooling
Ingress Protection	IP30
Storage Temperature	-40 °C ~ +85 °C
Operating Temperature	-40 °C ~ +75 °C
Humidity	5 ~ 95% (non-condensing)
Hardware Performance	
Backplane Bandwidth	16 Gbps
Processing Type	Store-and-Forward

Category/Parameter	Specification
MAC Table Size	4K
Packet Buffer Size	1.5 Mbits
Switching Delay	<10 μs
DIP Switch	Quality of Service (QoS), Broadcast Storm Protection (BSP)
Power Parameters	
Operating Voltage	9.6–60 VDC & 18–30 VAC
Power Consumption	5 W
Overcurrent Protection	Supported
Reverse Polarity Protection	Supported
Electromagnetic Characteristics	
EMS	IEC(EN)61000-4-2, Class 3; IEC(EN)61000-4-3, Class 3 IEC(EN)61000-4-4, Class 3; IEC(EN)61000-4-5, Class 3 IEC(EN)61000-4-6, Class 3; IEC(EN)61000-4-8, Class 5 IEC(EN)61000-4-18, Class 3
Certifications	
Certifications	CE, FCC, UL
Quality Assurance	
Warranty Period	5 years
MTBF	35 years

DIP Switch Settings

Users can use the DIP switch on the device panel to enable/disable Quality of Service (QoS) and Broadcast Storm Protection (BSP) functions. Fast Ethernet ports support 10/100 Mbps auto-negotiation.

Category/Parameter	Specification
Quality of Service (QoS) – On	Enables the QoS function, processes packet priorities in 2 WRR queues. Priority 7,6,5,4 → Queue 1 (WRR Weight 16); Priority 3,2,1,0 → Queue 0 (WRR Weight 1)
Quality of Service (QoS) – Off	Disables the QoS function
Broadcast Storm Protection (BSP) – On	Enables broadcast storm protection for all ports (allows max 200 broadcast packets per second)
Broadcast Storm Protection (BSP) – Off	Disables the broadcast storm protection function

4. Ordering Guide

Model	Description
ISE2008D-P-8T-24	8-port Layer 2 unmanaged Industrial Ethernet Switch. 8 × 10/100 BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. Single power input: 12/24/48 VDC (9.6~60VDC) or 24 VAC (18~30 VAC) (Only connect to class 2 power supply).
ISE2008D-P-2SFP-6T-24	8-port Layer 2 unmanaged Industrial Ethernet Switch. 2 × 100BaseX SFP Port (SFP module not included), and 6 × 10/100 BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. Single power input: 12/24/48 VDC (9.6~60VDC) or 24 VAC (18~30 VAC) (Only connect to class 2 power supply).

5. Contact Us

- **Website：** InHand Networks
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