



Simple and Highly Reliable Communications System

ISE-P Series Switch

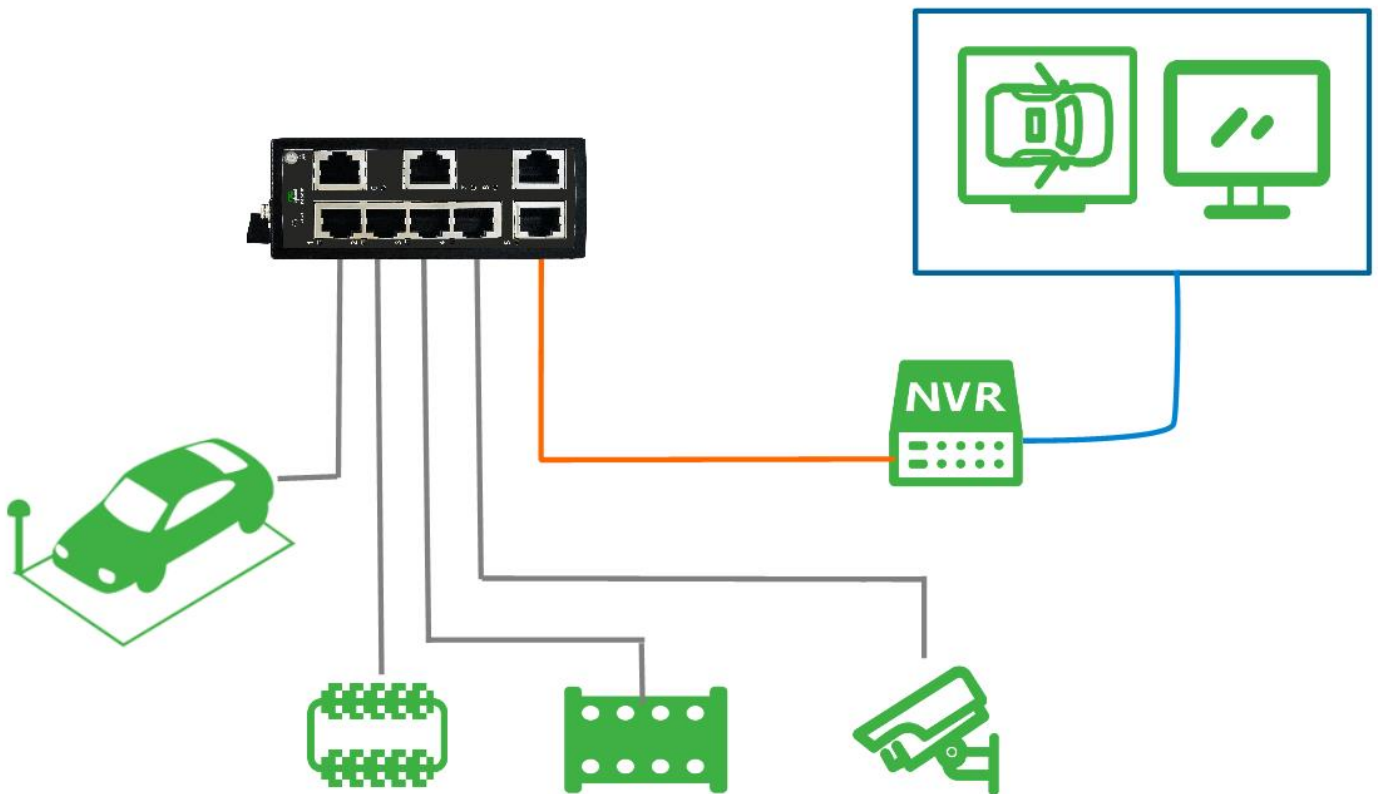
Unmanaged Industrial Switch



The ISE-P Series Switch is designed to meet power, size, weight and environmental tolerance requirements for industrial applications. It combines high-standard wide temperature and voltage design, enterprise-level wire-speed forwarding performance, a sturdy housing, industrial circuit protections and other industrial-grade features in one. Plug and play to meet the needs of harsh industrial environments.

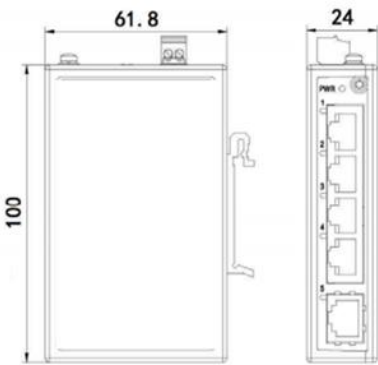
ISE Series Rail Type Unmanaged Industrial Ethernet Switch consists of ISE2000 100M series、ISE5000 Gigabit series.

Applications

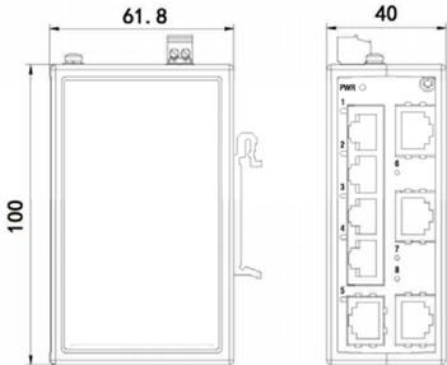


Dimensions *(mm)

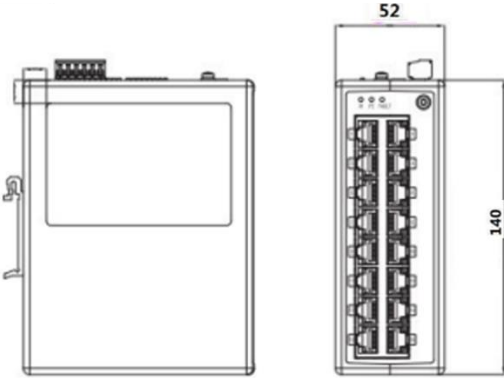
ISE2003D/2005D/5005D



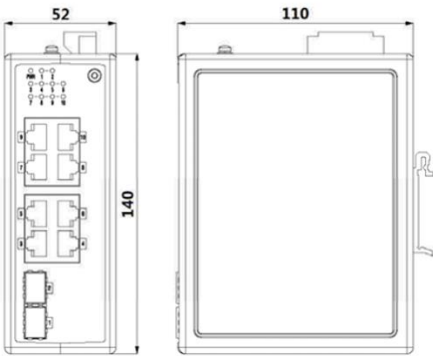
ISE2008D/5008D



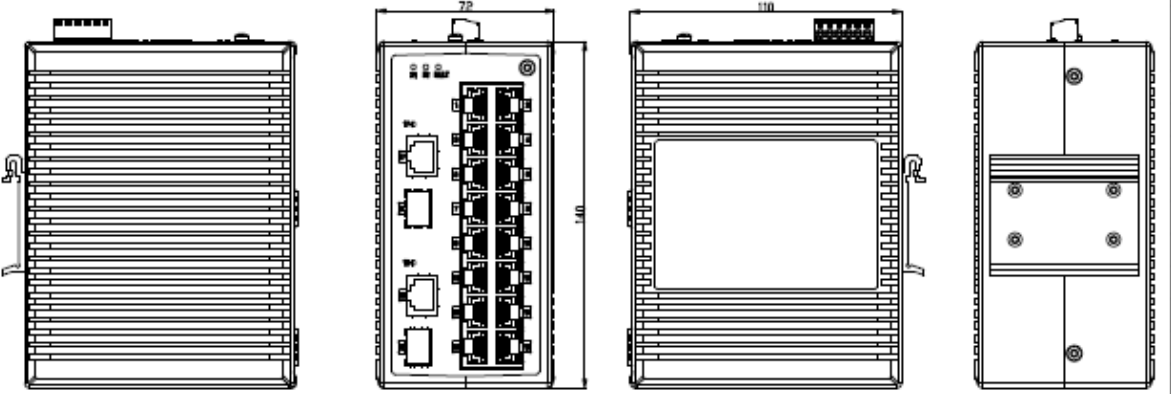
ISE2016D



ISE5010D/5310D



ISE3018D



Product Features

- + Provides 3~10 ports, 100/1000M industrial Ethernet switch
 - + Provides a variety of optical port type
 - + Supports DIN rail or wall hanging installation
 - + Turn on/off broadcast storm protection and QoS with dial switch
 - + IP30 sealed protection, dust, dirt and debris proof
 - + -40°C~+75°C working temperature range
 - + Compliant with EMC industry level 3 standards
 - + Redundant power supplies, POE power supply (hot swappable) *
 - + Industrial-grade redundant power supply, DC12~60V stable input*
 - + Design of the whole system, MTBF > 35 years
 - + Metal casing, durable and corrosion
- **Reliable Industrial Quality**
 - Strong metal cabinet with corrosion-proof coating;
 - All fanless design with IP30 protection, resistant to dust, dirt and chips; supports a wide temperature range;
 - Redundant power and wide voltage input ensure stable communications in severe environments;
 - MTBF is over 10000 hours
 - Basically meet the needs of electric power, transportation, industrial control and other different industrial sites.
 - **Simple and Easy management**
 - Supports standard DIN-Rail and wall mounting, compact-sized for easy fitting in racks and cabinets;
 - Plug and play, enables fast deployment.

Note: *Applicable to some products, please refer to specific product specifications or contact local sales staff for

Technical Specifications

ISE product specifications			
Project	ISE Unmanaged Switch		
Interface			
Ethernet Port	ISE2003D	2 10/100Base-T(X) adaptive RJ45 ports	
	ISE2005D	5 10/100Base-T(X) adaptive RJ45 ports	
	ISE2008D	8 10/100Base-T(X) adaptive RJ45 ports	
	ISE2016D	16 10/100Base-T(X) adaptive RJ45 ports	
	ISE3018D	2 * 100/1000BaseX Ports (Combo) + 16 10/100Base-T(X) adaptive RJ45 ports	
	ISE5005D	5 10/100/1000 Base-T(X) adaptive RJ45 ports	
	ISE5008D	8 10/100/1000 Base-T(X) adaptive RJ45 ports	
Fiber Optic	ISE5010D	8 10/100/1000 Base-T(X) adaptive RJ45 ports	
	ISE2003D	1 100Base-FX adaptive port (SC interface)	
	ISE5010D/5310	2 100/1000BaseX SFP slots	
Mechanical properties			
Housing	Die-casting aluminum alloy		
Protection Level	IP30 (IP40 for ISE5010)		
Size	ISE2003D/2005D/5005D	24mm x 100mm x 61.8mm	
	ISE2008D/5008D	40mm x 100mm x 61.8mm	
	ISE2016D /5306D/5010D/5310D	52mm x 140mm x 110mm	
	ISE3018D	72mm x 140mm x 110mm	
Weight Cooling	ISE2003D/2005D/5005D/2008D/5008D	0.23kg	
	ISE2016D/5010D/5310D	0.7 kg	
	ISE3018D	1.2 kg	
Housing	Fanless cooling	Installation Method	DIN-rail
Power Supply			
Input Voltage	ISE2003D/2005D/2008D/3018D/5005D/5008D	24VDC (9.6~60VDC) OR 24(18~30VAC)	
	ISE5010D	24VDC (18~60VDC) Redundant input	
	ISE5306D/5310D	48VDC(48-57VDC) Redundant input	
Interface Terminal	ISE2003D/2005D/2008D/5005D/5008D	2-pin pluggable screw terminal block	
	ISE2016D/3018D	6-pin pluggable screw terminal block	
	ISE5010D/5306D/5310D	5-pin pluggable screw terminal block	
Power Consumption	ISE2003D/2005D/2008D/2016D/5005D/5008D	< 5W	
	ISE3018D/ISE5010D	< 10W	
Overload Protection	supply	Reverse Connection Protection	supply
PoE (Only ISE5306D/5310D)			
PoE port	Support IEEE 802.3af/at compliant PoE		
Maximum pwer	15.4W (IEEE 802.3af); 30W (IEEE 802.3at)		
Warranty			
Warranty Period	Three years	MTBF	35 years
Certifications			
CE, FCC			

ISE product specifications			
Project	ISE unmanaged switch		
Working environment			
Storage	-40 ~ +85°C	Relative	5 ~ 95% (non-condensing)
Operating	-40 ~ +75 ° C		
Exchange performance			
Delay In Forwarding	ISE2003D/2005D/2008D	7 us	ISE5005D/5008D/5010D/5310D
	ISE2016D/3018D	10 us	
Switching Bandwidth	ISE2003D/2005D/2008D	1.6Gbps	ISE5005D/5008D
	ISE2016D/3018D	8.8 Gbps	ISE5010/5306D/5310D
MAC Address Table	ISE2003D/2005D/2008D	1k	ISE5005D/5008D/5010D/5306D/5310D
	ISE2016D/3018D	8 K	
Forwarding Rate	100 Mbit ports	148,800 pps	
	1000 Mbit ports	1,488,000 pps	
Packet Buffer	ISE2003D/2005D/2008D	448Kb	ISE5005D/5008D/5010D/5306D/5310D
	ISE2016D/3018D	4 Mb	
EMC			
ESD	ISE2003D/2005D/2008D/2016D/3018D/5005D/5008D	EN61000-4-2, level 3	
	ISE5010D/5306D/5310D	EN61000-4-2, level 4	
RS	ISE2003D/2005D/2008D/2016D/3018D/5005D/5008D	EN61000-4-3, level 3	
	ISE5010D/5306D/5310D	EN61000-4-3, level 4	
EFT	ISE2003D/2005D/2008D/2016D/5005D/5008D	EN61000-4-4, level 3	
	ISE5010D/5306D/5310D	EN61000-4-4, level 4	
Surge	ISE2003D/2005D/2008D/2016D/3018D/5005D/5008D	EN61000-4-5, level 3	
	ISE5010D/5306D/5310D	EN61000-4-5, level 3	
CS	ISE2003D/2005D/2008D/2016D/3018D/5005D/5008D	EN61000-4-6, level 3	
	ISE5010D/5306D/5310D	EN61000-4-6, level 3	
PFMF	ISE2003D/2005D/2008D/2016D/3018D/5005D/5008D	EN61000-4-8, level 4	
	ISE5010D/5306D/5310D	EN61000-4-8, level 5	
RWI	ISE2003D/2005D/2008D/2016D/3018D/5005D/5008D	EN61000-4-18, level 2	
	ISE5010D/5306D/5310D	EN61000-4-18, level 3	
Physical properties			
Shockproof	IEC60068-2-27	Fall	IEC60068-2-32
Vibration	IEC60068-2-6		
Features			
DIP switch (Except ISE5306D/5010/5310)	QoS	IEEE 802.1P/1Q	
		TOS/DiffServ	
	BSP	Broadcast storm protection	
Alarm (Only ISE2016D/3018D)	Power alarm, port alarm, alarm buzzer		

Ordering Information

Model	Fiber Optic	Ethernet
ISE2003D-P-M3-2T-SC-24	1 * multi mode dual-fiber 2km 1310 transmit-receive	2 * 10/100 Base-T(X) adaptive RJ45 ports
ISE2003D-P-S203-2T-SC-24	1 * single mode dual-fiber 20km 1310 transmit-receive	2 * 10/100 Base-T(X) adaptive RJ45 ports
ISE2005D-P-5T-24	None	5 * 10/100 Base-T(X) adaptive RJ45 ports
ISE2008D-P-8T-24	None	8 * 10/100 Base-T(X) adaptive RJ45 ports
ISE2016D-P-16T-24	None	16 * 10/100 Base-T(X) adaptive RJ45 ports
ISE3018D-P-2GC-16T-24	2 * 100/1000BaseX Ports (Combo)	16 * 10/100 Base-T(X) adaptive RJ45 ports
ISE5005D-P-5GT-24	None	5 * 10/100/1000 Base-T(X) adaptive RJ45 ports
ISE5008D-P-8GT-24	None	8 * 10/100/1000 Base-T(X) adaptive RJ45 ports
ISE5010D-P-2GSFP-8GT-24	2 * 100/1000BaseX SFP slots	8 * 10/100/1000 Base-T(X) adaptive RJ45 ports
ISE5306D-P-2GSFP-4GT-48	2 * 100/1000BaseX SFP slots	4 * 10/100/1000 Base-T(X) adaptive RJ45 PoE ports
ISE5310D-P-2GSFP-8GT-48	2 * 100/1000BaseX SFP slots	8 * 10/100/1000 Base-T(X) adaptive RJ45 PoE ports

About Us

InHand Networks is a global leader of Industrial IoT, with a record of tremendous success following groundbreaking innovation since our inception in 2001.

InHand serves world-class partners and customers with industrial M2M routers, gateways, industrial Ethernet switches, rugged computers and IoT management platforms. We provide IoT solutions for various vertical markets including Smart Grid, Industrial Automation, Remote Machine Monitoring, Smart Vending, Smart City, Retail and more.

Proudly bearing the marks of both Rockwell Automation Encompass Product Partner in Asia-Pacific and Schneider Electric CAPP Technology Partner, InHand Networks defines industrial innovation and reliability.



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