

IS-DG305-A Series

5-port Gigabit Unmanaged Layer 2 Industrial Ethernet Switch



The IS-DG305-A Series are full Gigabit unmanaged Ethernet Switches that provide easy to access, plug-n-play Gigabit ports for applications; a full Gigabit network provides higher throughput than legacy Fast Ethernet network. The cost effective IS-DG305-A Series unmanaged switches can be easily used in factory production line or embedded into machine system. The IS-DG305-A Series also support some useful function by default for network traffic optimization, such as QoS and storm protection.



Key features

- ▶ 5 / 4 Giga Copper ports with 0 / 1 100/1000 Based SFP (SX/LX/LHX) ports
- ▶ Support 9K Jumbo frames
- ▶ IEEE 802.3x flow control & back-pressure
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ Support IEEE 802.1p TOS/Diffserv, QoS by default
- ▶ Multicast / Broadcast / Flooding Storm Control
- ▶ Wide-temperature range (-40~75°C)
- ▶ AC Power Input 100/240 VAC, 50Hz ~ 60Hz
- ▶ Support DIN-Rail or wall mount installation
- ▶ IP 30 Protection
- ▶ 2KV surge immunity on RJ45 Copper ports
- ▶ 1.5KV Hipot
- ▶ Rugged Fanless design

Specification

Ethernet

| | |
|------------------------------|--|
| Operating Mode | Store and Forward, L2 wire-speed/non-blocking switching engine |
| MAC addresses | 2K |
| Packet Buffer | 1 Mbits |
| Jumbo frame | 9K |
| Backplane / Switching Fabric | 10Gbps |

RJ45 Copper ports

| | |
|--------------------------|--|
| Speed | 10/100/1000 Mbps |
| MDI/MDIX Auto-crossover | Support straight or cross wired cables |
| Auto-negotiation/Duplex | 10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex |
| Ethernet Port Protection | 1.5KV VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports |

Fiber Ports

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|----------------------|--|
| Port Types supported | 100/1000 Base SFP Slot |
| Fiber port connector | LC/RJ45 connector for fiber ports |
| Optimal fiber cable | Typical 50 or 62.5/125 μ m for multimode (mm) Typical 8 or 9/125 μ m for single mode (sm) |

Protocols & Standards

IEEE 802.3, IEEE 802.3x, Flow Control, Back Pressure, TCP/UDP

Smart Features

| | |
|------------------|--|
| QoS | IEEE 802.1p, TOS/Diffserv |
| Number of Queue | 4 |
| Storm Protection | Multicast/Broadcast/Flooding Storm Control |
| Traffic Shaper | Port-Based Port Sharping |

Power

| | |
|---------------------|--|
| Power Input | AC Power Input, IEC Connector |
| Input Voltage Range | 100/240 VAC, 50Hz~60Hz |
| Power Consumption | IS-DG305-A 3.6 Watt, IS-DG305-F-A 4.3 Watt |

Indicators

| | |
|--------------------------|--------------------|
| Power status indication | Power Input status |
| Ethernet port indication | Link & speed |

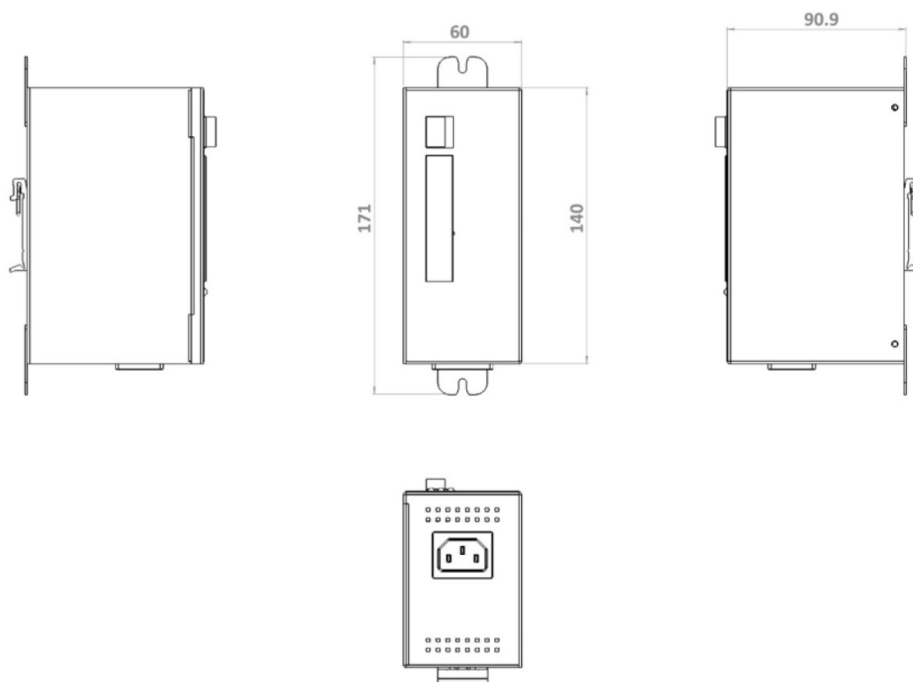
Environmental and Compliances

| | |
|-----------------------------|--|
| Operating Temperature | -40~75°C (Cold startup at -40°C) |
| Storage Temperature | -40~85°C |
| Humidity | 5~95% (Non-Condensing) |
| Vibration, shock, free fall | IEC-60068-2-6, -27, -32 |
| Certification Compliance | CE, FCC |
| Electrical safety | CE |
| EMC | FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3) |
| RoHS & WEEE | RoHS (Pb free) and WEEE Compliant |
| MTBF | >25 years |

Mechanical

| | |
|--------------|---|
| Protection | IP30 |
| Dimension | 140mm(H) x 60mm (W) x 90.9mm (D) (without DIN rail kit) |
| Weight | 800 g |
| Installation | DIN-Rail mounting; Wall mounting |

Dimension Diagram



Ordering Information

| Available Models | Description | 10/100/1000Mb TX | 100/1000Mb FX |
|------------------|--|------------------|---------------|
| IS-DG305-F-A | Industrial 5 port Gigabit Layer 2 unmanaged Ethernet Switch, 1G SFP Slot | 4 | 1 |
| IS-DG305-A | Industrial 5 port Gigabit Layer 2 unmanaged Ethernet Switch, | 5 | |

Accessories

1. 100 Mb SFP Modules
2. Gigabit SFP Modules
3. IS-RK4U 19" rack mount kit

Package Checklist

- IS-DG305-A Switch
- Quick Installation Guide (Printed)
- Wall Mount kit / DIN-Rail kit