Managed Layer-2 Industrial Ethernet Switch

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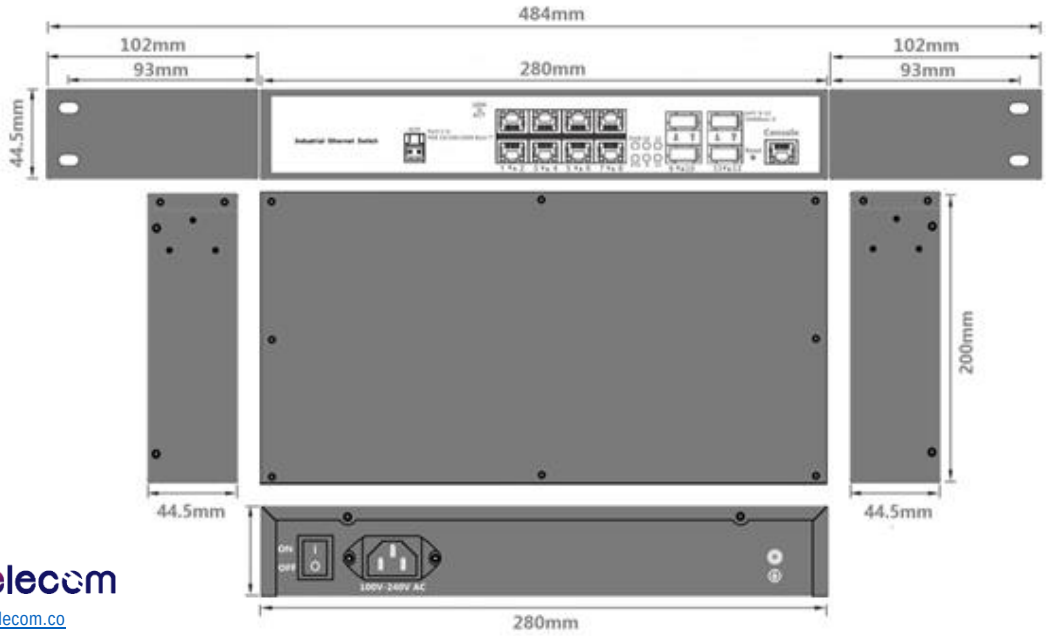
8 ETH (10/100/1000) + 4 SFP (1.25G)

P/N : ITT-ISW-L2-8G4S

The ITT-ISW-L2-8G4S is a managed L2 industrial Ethernet switch providing 8 electrical and 4 optical gigabit Ethernet ports. It supports abundant L2 features such as VLAN, STP/RSTP/MSTP, ERPS,QoS, ACL, and supports Web/CLI management and third-party SNMP management. All models are with IP40 protection class and meet EMC industrial level 4 requirements.

- -40 to 85°C operating temperature range
- IP40 metal housing with fanless design
- Level 4 EMC Protection
- One key ring configuration
- ERPS with protection switching time < 20ms
- WEB, Telnet, CONSOLE, EMS management

It provides wide AC voltage range of 100-240V, wide operating temperature range of -40 to the +85°C. Each product has passed a 100% burn-in test in 85°C to ensure its quality high-reliability transmission. All of these features make the product ideal for applications that require high-reliability transmission , such as video surveillance, tolling systems, ITS, and factory automation.



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Network Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-Tx IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X
Certifications	CCC, CE, FCC, RoHS
Switch Technical	MAC Table: 8K Packet buffer: 4M VLAN: 4K VLAN Mode: Acess/Trunk/Hybrid ➢ 802.1Q/port/protocol/MAC/IP subnet based VLAN; ➢ QinQ and VLAN translation; ➢ IGMP snooping v1/v2/v3, IGMP proxy, MVR; ➢ DHCP client/sever/relay ➢ LACP for port bandwdith extension, load balance; ➢ STP/RSTP/MSTP for ring protection; ➢ ERPS with protection switching time <20ms; ➢ one key ring configuration for STP/RSTP/ERPS; ➢ Loopback detection and loopback test; ➢ 8-queue QoS with SP/WRR scheduling policy; ➢ Rate limitation and traffic shapping; ➢ DLF/multicast/broadcast limitation; ➢ MAC/VLAN/IP/TCP/UDP port/ToS based ACL ➢ Dynamic MAC learning and static MAC configuration; ➢ MAC addresss learning enable/disable per port; ➢ MAC limitation per port; ➢ Fiber RDI Remote Defect Indication) alarm; ➢ Dying Gasp remote equipment fail alarm; ➢ 801.2x, RADIUS, TACACS+ ➢ HTTPS, SSH; ➢ Port mirror; ➢ RMON group 1, 2, 3, 9; ➢ SNMP v1/v2c/v3; ➢ Online upgrade and dual-Image firmware; ➢ Configuration backup and restore; ➢ CONSOLE and telnet for CLI management; ➢ WEB management;
LED indicator	➢ Power LED: PWR ➢ Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT)

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Interface	➢ Console Ports: 1 RS-232 (RJ45) ➢ Optical Ports: 4 1000Base-X (SFP) ➢ Electrical Ports: 8 10/100/1000Base-T (RJ45)
MTBF	360,000 hrs
Machinery Standard	➢ IEC60068-2-6 (Vibration) ➢ IEC60068-2-27 (Shock) ➢ IEC60068-2-32 (Free Fall)
Power	➢ Power Terminal: 10 A plug ➢ Full load power consumption: < 13W ➢ Overload Protection: Support
Physical	➢ Housing: Metal, fanless ➢ Protection Class: IP40 ➢ Dimensions : 44.5mm x 280mm x 200mm(W×H×D) ➢ Weight: 2.5kg ➢ Mounting: Rack mounting
Environment	➢ Operating Temperature: -40 to 85°C ➢ Storage Temperature: -45 to 85°C ➢ Ambient Relative Humidity: 5 to 95% (non-condensing)

Industrial Standard	➢ EMI: ➢ FCC CFR47 Part 15, EN55022/CISPR22, Class A ➢ EMS: ➢ IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) ➢ IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) ➢ IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV ➢ IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV ➢ IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) ➢ IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

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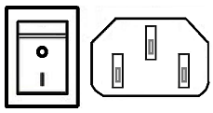
Product model	ITT-ISW-L2-8G4S
Product descriptions	8*10/100/1000Base-T(RJ45) + 4*1000Base-X(SFP), managed layer-2 industrial Ethernet switch, 100-240VAC

Eatrh Protection

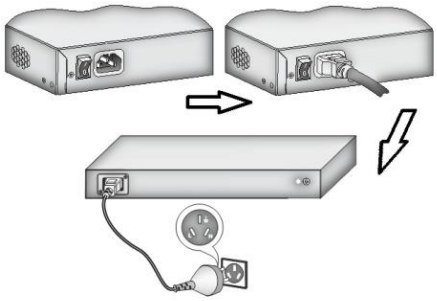
Power Input

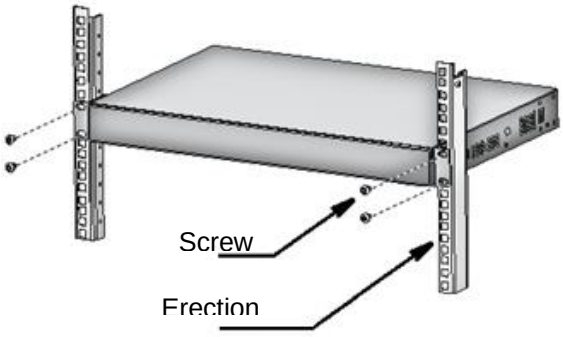


- AC-DC power module
- Input Range：100-240VAC

Rack Mounting

AC Power Line





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