Managed Layer-2 Industrial PoE Ethernet Switch

Ittelecom Optical Technology Co., ltd

P/N: ITT-SW4788

Features:

- -40 to 85°C operating temperature range
- IP40 metal housing with fanless design
- Level 4 EMC Protection
- PoE, IEEE802.3af/at, up to 30W power output per port
- One key ring configuration
- ERPS with protection switching time < 20ms
- WEB, Telnet, CONSOLE, EMS management

◆ Description:

The ITT-SW4788 is a managed L2 industrial Ethernet switch providing 4 electrical and 2 optical gigabit Ethernet ports. The 4 electrical ports support POE and provide maximum 90W/port output. 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. The product supports wide power input voltage range of 12-36VDC and wide operating temperature range of -40 to the +85°C. In addition to its compact size for space-saving installation, 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.

◆ Technical Parameters:

• **Standard**	➢ IEEE 802.3 10Base-T ➢ IEEE 802.3u 100Base-Tx ➢ IEEE 802.3ab 1000Base-T ➢ IEEE 802.3z 1000Base-X
• **Switch Properties**	➢ 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

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	• 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;
• **Interface**	➢ Console Ports: 1 RS-232 (RJ45) ➢ Optical Ports: 2 1000Base-X (SFP) ➢ Electrical Ports: 4 10/100/1000/Base-T (RJ45)
• **LED indicator**	➢ Power LED: PWR ➢ Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT)
• **Power**	➢ Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block ➢ Full load power consumption: < 8W (POE:<300W) ➢ Overload Protection: Support ➢ Reverse Connection Protection: Support ➢ Redundancy Protection: Support
• **PoE Function**	➢ IEEE 802.3.af : 15.4W per port ➢ IEEE 802.3.at: 30W per port ➢ 4 Pair powering +3,6,4,5/-1,2,7,8
• **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)
• **Machinery:**	➢ IEC60068-2-6 (Vibration) ➢ IEC60068-2-27 (Shock) ➢ IEC60068-2-32 (Free Fall)
• **Physical Characteristics**	➢ Housing: Metal, fanless ➢ Protection Class: IP40 ➢ Dimensions : 44.5mm x 199mm x 120mm(W×H×D) Weight: 0.9kg ➢ Mounting: DIN-Rail or Panel mounting
• **MTBF**	➢ 360,000 hrs
• **Environmental Limits**	➢ Operating Temperature: -40 to 85°C ➢ Storage Temperature: -45 to 85°C ➢ Ambient Relative Humidity: 5 to 95% (non-condensing)
• **Approvals**	➢ CE, FCC, RoHS

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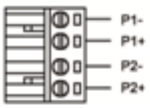
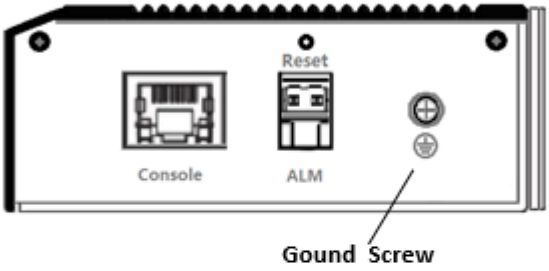
Installation Modes

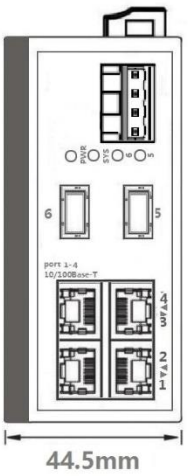
Power Input:

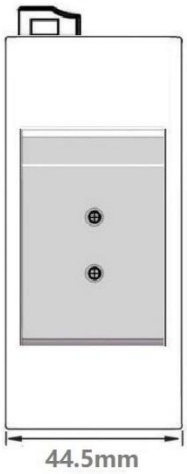


- 4-pin 5.08mm-spacing plug-in termina
- 42-56VDC inpu
- P1&P2 dual power input
- Reverse protection

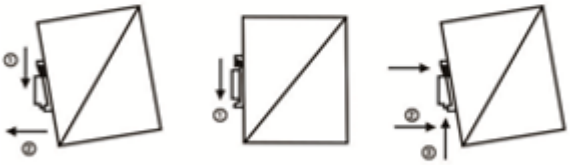
Earth Protection

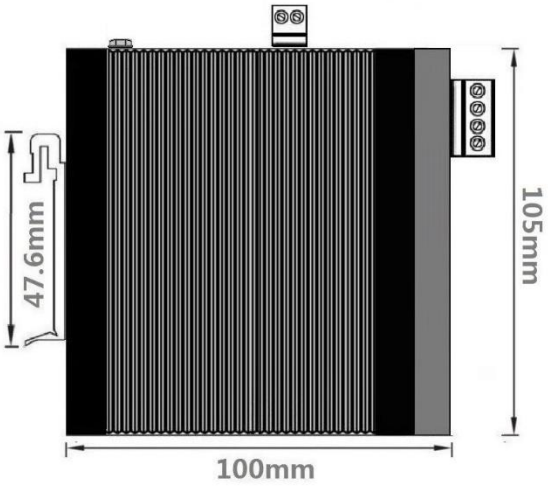






Din-Rail





Wall mounting