



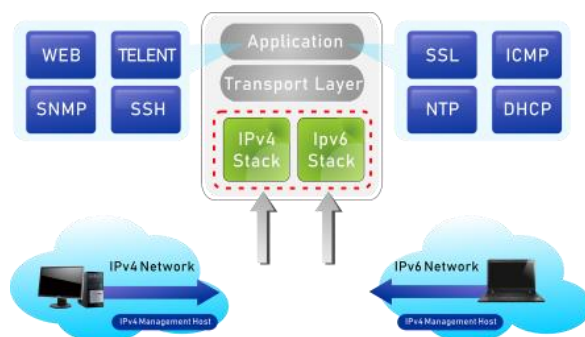
## Environmentally Hardened Design

With the **IP40** metal industrial case which provides a high level of immunity against electromagnetic interference and heavy electrical surges, Being able to operate under the temperature range from **-40 to 85 degrees C**, the ITT-SW4248 can be placed in almost any difficult environment.



## Cost-effective IPv6 Managed Gigabit PoE Switch Solution

With layer 2+ managed Gigabit PoE Switch, It provides IPv6/IPv4 management and built-in L2/L4 Gigabit Switching engine, and supports high-speed transmission of surveillance images and videos.



## Surge Protection Design

## Features:

- Ports: Provide 8\*10/100/1000Mbps PoE ports with 4 1000Mbps SFP
- PoE Standard: IEEE802.3af/at Power over Ethernet (PoE) Compliant
- Self-adaption: RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX
- Industrial Installation: Din Rail mounting installation
- Wide Application: Designed for Railway, traffic etc some Industrial environment
- Surge protection: Protect the device from lightning surges and others electrical hazards
- Managed: Support remote web managed, VLAN and storm control and IPV6 management etc.
- Working Temperature: -40 to 85 degrees operating temperature
- Considerate Design: IP40 Industrial design with dual power input
- Easy to use: Plug and play, No configuration required

provides contact discharge of  $\pm 8\text{KV}$  DC and air discharge of  $\pm 15\text{KV}$  DC for Ethernet ESD protection. It also supports  $\pm 6\text{KV}$  surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

## Gigabit SFP Uplink Port

With two SFP module slot available, the SFP uplink port is ideal for connecting the switch to the network's backbone, providing more than enough bandwidth and stability for ultra high speed data transferring, Beside the SFP can transmitt the date with Max 100Km distance with more economic solution



## Technical Parameters:

### Hardware Specifications

Connector 8 10/100/1000BASE-T RJ45 auto MDI/MDIX ports  
4 1000 Base-X SFP Slots 1 Console port

PoE Port 8 10/100/1000Mbps POE PSE port

LED Display Power Indicator: PWR(green).  
Network Indicator: Link(yellow)  
PoE Working Indicator: PoE(green)

Thermal Fan Fanless Design

Installation Din Rail

Switch Architecture Store and Forward

Transmission model IEEE802.3X full-duplex and Backpressure half-duplex

Switch Performance	Backplane bandwidth	32Gbps
	Packet forwarding rate	19.86Mpps
	MAC address	8k

Power requirement DC 44V~56V

ESD Protection 8KV ESD

Dimension(WxDxH) 48mm x 110mm x 150mm(1.89in x 4.33in x 5.91in)

Weight 1.25kg

## Power over Ethernet (PoE) Specifications

IEEE802.3i 10 BASE-T

IEEE802.3u 100 BASE-TX

IEEE802.3ab 1000BASE-T

Network standard IEEE802.3x Flow Control

IEEE802.3af Power over Ethernet

IEEE802.3at Power over Ethernet

IEEE802.3az EEE

PoE Standard IEEE 802.3af Power over Ethernet/PSE

IEEE 802.3at Power over Ethernet Plus/PSE

PoE Supply Type 1/2(+), 3/6(-) End-span

PoE Power Output Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)

Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)

PoE Power budget 120/240W optional

## Layer 2 Functions

Port Mirroring TX / RX / both Many-to-1 monitor

Vlan 802.1Q tagged-based VLAN  
Up to 256 VLAN groups, out of 4094 VLAN IDs  
802.1ad Q-in-Q tunneling  
Voice VLAN;Protocol VLAN;Private VLAN (Protected port),GVRP

Link Aggregation IEEE 802.3ad LACP and static trunk

Supports 8 groups of 8-port trunk

Spanning Tree Protocol STP, IEEE 802.1D Spanning Tree Protocol

RSTP, IEEE 802.1w Rapid Spanning Tree Protocol

MSTP, IEEE 802.1s Multiple Spanning Tree Protocol

IGMP (v2/v3) snooping

IGMP Snooping IGMP querier

Up to 256 multicast groups

MLD Snooping MLD (v1/v2) snooping, up to 256 multicast groups

Access Control List IPv4/IPv6 IP-based ACL / MAC-based ACL

PoE Management Open or close port

## Installation Models

Standard POE scheduling management Power and current display

Automatic restarting function of equipment dead machine Timing

Support IP bindings restarting

QoS

8 mapping ID to 8 level priority queues

--- Port number

--- 802.1p priority

--- 802.1Q VLAN tag

--- DSCP field in IP packet

Traffic classification based, strict priority and WRR

Security

IEEE 802.1X port-based authentication

Built-in RADIUS client to co-operate with RADIUS server

RADIUS / TACACS+ user access authentication

IP-MAC port binding

MAC filtering

Static MAC address

DHCP Snooping and DHCP Option82

STP BPDU guard, BPDU filtering and BPDU forwarding

DoS attack prevention

ARP inspection

IP source guard

## Management Function

Basic Management Interfaces

Web browser / Telnet / SNMP v1, v2c, V3

Firmware upgrade by HTTP / TFTP protocol through Ethernet network

Remote / Local Syslog, System log, LLDP protocol, SNMP

Secure Management Interfaces

SSH, SSL, SNMP

SNMP MIBs

RFC 1213 MIB-II

RFC 1215 Generic Traps

RFC 1493 Bridge MIB

RFC 2674 Bridge MIB Extensions

RFC 2737 Entity MIB (Version 2)

RFC 2819 RMON (1, 2, 3, 9)

RFC 2863 Interface Group MIB

RFC 3635 Ethernet-like MIB

## Environment

Safety

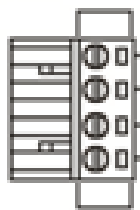
FCC Part15 Class A, CE, RoHS

Environment specification

Operating temperature: -40℃~85℃, operating humidity: 5%~95%

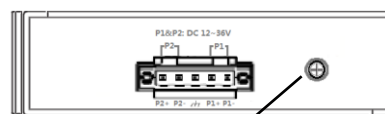
Storage temperature: -40℃~85℃, storage humidity: 5%~95%

## Power Terminal

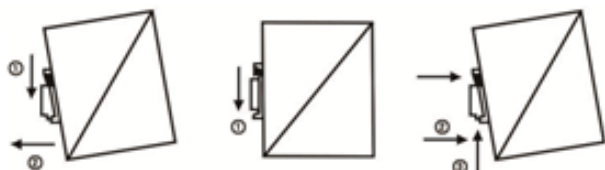


- ◆ 4-pin 3.81mm-spacing plug-in terminal
- ◆ 44V-56VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection

## Earth Protection

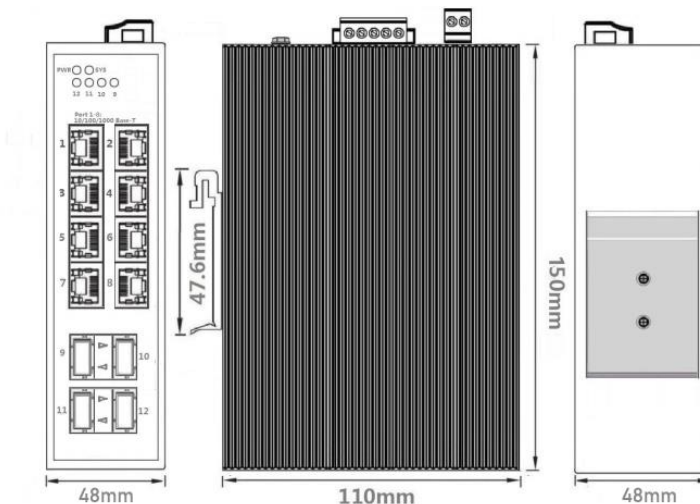


Ground terminal or screw



Din-Rail

## Mechanical Drawing



## Applications

