



Features:

- **Ports:** Provide 16*10/100/1000Mbps PoE ports with 2*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 lighting 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

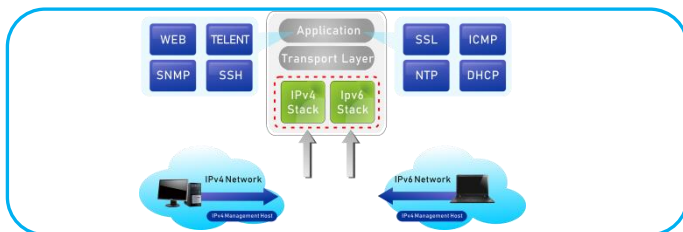
Environmentally Hardened Design

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-ISWP-16G-2S 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



Surge Protection Design

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

Technical Datasheet

Model	ITT-ISWP-16G-2S	
Hardware Specifications		
Connector	16* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 2* 1000 Base-X SFP Slots 1 Console port	
PoE Port	16* 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	48Gbps
	Packet forwarding rate	27Mpps
	MAC address	8k
Power requirement	DC 44V~54V	
ESD Protection	6KV ESD	
Dimension(WxDxH)	50mm x110mm x 180mm(1.97in x 4.33in x 7.9in)	
Weight	<1.32kg	
Power over Ethernet (PoE) Specifications		
Network standard	IEEE802.3i 10 BASE-T	
	IEEE802.3u 100 BASE-TX	
	IEEE802.3ab 1000BASE-T	
	IEEE802.3x Flow Control	
	IEEE802.3af Power over Ethernet	
	IEEE802.3at Power over Ethernet	
PoE Standard	IEEE802.3az EEE	
	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	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
Industrial Ring	G.8032 (ERPS),Recovery time less than 20ms
	250 Ring at most, Max 1024 devices per ring
IGMP Snooping	IGMP (v2/v3) 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
	Standard POE scheduling management Power and current display
	Automatic restarting function of equipment dead machine Timing
	Support IP bindings restarting
	8 mapping ID to 8 level priority queues
QoS	--- Port number
	--- 802.1p priority
	--- 802.1Q VLAN tag
	--- DSCP field in IP packet
Security	Traffic classification based, strict priority and WRR
	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	

Installation Models

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, SNT

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

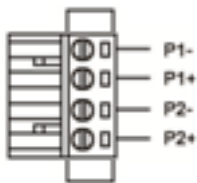
FCC Part15 Class A, CE, RoHS

Environment specification

Operating temperature: -40°C~85°C, operating humidity: 5%~95%
Storage temperature: -40°C~85°C, storage humidity: 5%~95%

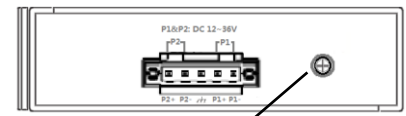
Applications

Power Terminal

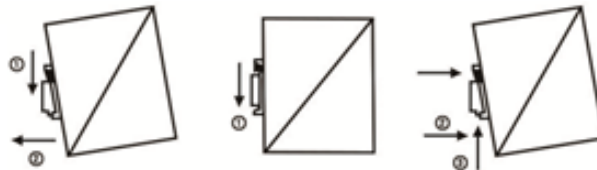


- ◆ 4-pin 3.81mm-spacing plug-in terminal
- ◆ 48V-56VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection

Earth Protection

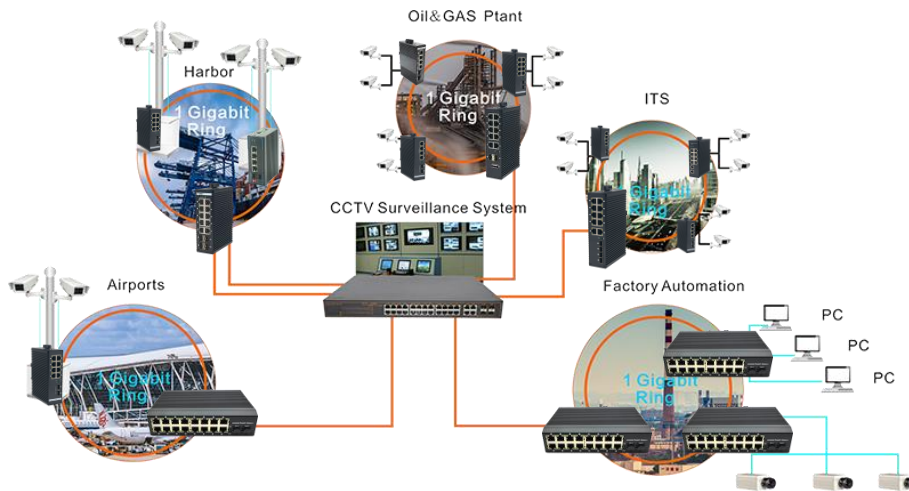
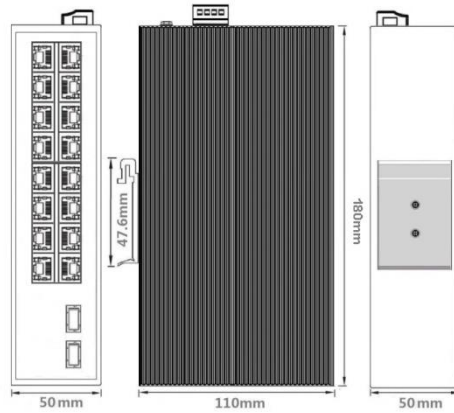


Ground terminal or screw



Din-Rail

Mechanical Drawing



Ordering Information

ITT-ISWP-16G-2S

16 Ports 10/100/1000Mbps Industrial Managed Din rail PoE switch
With 2 SFP, Din rail type, IEEE802.3af/at