P/N : **ITT-SW645**

Ethernet Switch
8 port Ethernet - 4 port SFP Modules
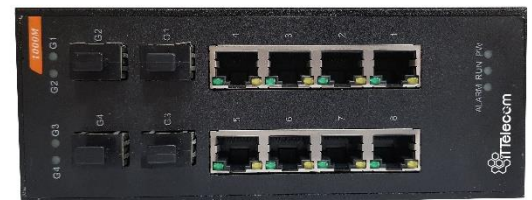
FC CE
RoHS ISO 9001
SPEED

A network switch is a computer networking device that connects devices together on a computer network by using packet switching to receive, process, and forward data to the destination device.

A network switch is a multiport network bridge that uses hardware addresses to process and forward data at the data link layer of the OSI model. Some switches can also process data at the network layer by additionally incorporating routing functionality.

Managed provides 4*1000Base SFP COMBO ports and 8*1000BaseT(X) fast Ethernet ports. No fan, low power consumption design; Support redundant Ring protocol, with complete security and QoS policies; Support VLAN division, port mirroring, and port rate limiting; Support broadcast storm suppression, flow control, and centralized management and configuration by WEB,CLI,SNMP; Dual redundant power input; Comply with CE, FCC and ROHS standards. Its wide operating temperature range and port surge protection design are ideal for application in large flow real-time outdoor environment, and are widely used in industrial automation control and surveillance occasions like campus, community, rail traffic, electric power control and so on.

- 8*1000Base T(X) fast Ethernet ports& 4*1000Base SFP COMBO
- Wire speed forwarding capability of all ports make sure of non-blocking message forwarding.
- Automatic MDI/MDI-X crossover for plug-and-play
- Support redundant Ring protocol
- Support 802.1x authentication,
- VLAN, and broadcast storm suppression.
- Loop detection and Port+ IP+MAC binding.
- Port traffic monitoring and fault event alarming
- Support WEB visual interface, support SNMP management.
- Support full-loaded operating temperature range -40 to 85℃.
- No fan, low power consumption design.
- EMC-4
- IP40 protection

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Properties	
Standards:	IEEE 802.3,802.3u,802.3x, 802.3ab, 802.3z; IEEE802.1Q,802.1p,802.1D,802.1w,802.1s,802.1X,802.1ab
Protocols	Ring, MSTP, IGMP Snooping, GMRP,VLAN,PVLAN, Telnet, HTTP, HTTPS, RMON,SNMPv1/v2/v3,LLDP,SNTP,DHCP server,SSH,SSL,ACL,FTP,ARP,QoS
Gigabit Ethernet port	10/100/1000 Base-T(X) auto-adaptive RJ45
Gigabit SFP Fiber port	1000Base-SFP FX port (LC)
Gigabit SFP Ethernet port	1000Base-SFP TX port
Console port	3.81mm industrial terminal
Power port	5.08mm industrial terminal
Switching mode	Store and Forward
Operating Temperature	-40℃～+85℃
Storage Temperature	-45℃～+85℃
Relative Humidity	5～95%,non-condesing
LED Indicator for	Power, Device running status, Ethernet port connection & running status, Fiber port connection& running status
Environment	Storage Temperature: -40～70°C Operating Temperature: -10～55°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Dimension: 94×70×26mm(external), 140×110×29mm(internal) Weight: 0.35kg(internal),0.35kg(external) Color: Metal, Black
Power Supply:	AC:220V or DC:-48V
VLAN	802.1Q,Vlan(4K), Port-based VLAN, Q-in-Q
Storm Suppression	Broadcast, multicast, and unknown unicast storm suppression
Flow control	IEEE802.3X negotiation, CAR function, rate limiting step 64K
Multicast protocol	IGMPv1/2/3 Snooping
Port Management	Support port mirroring, port isolation, port trunking
DHCP Management	Support DHCP Snooping, option 82
QoS (Quality of Service)	802.1p; Support port default priority tags, at least 4 different priority queues per port
Security features	MAC address filtering, dynamic or static MAC address learning, Loop detection and Port+ IP+MAC binding
Traffic Management	Port traffic monitoring and fault event alarming
Management	SNMP v1/v2/v3, CLI,WEB
Management Access	Support Console, Telnet
System Maintenance	RMON,PDP Discovery Protocol(CDP compliant),AST
File transfer	Support Log output, configuration file backup and input

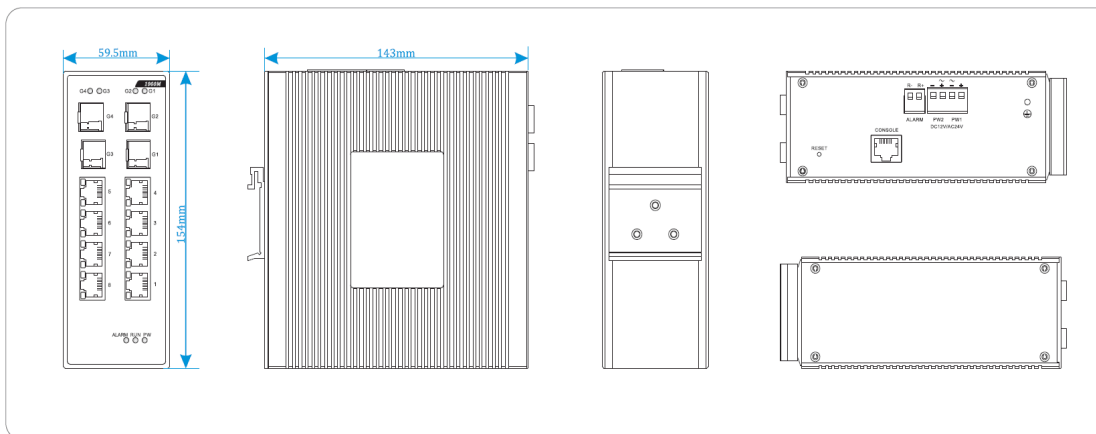| Properties	
EMI	FCC Part 15,CISPR(EN55022) class A
EMS	EN61000-4-2(ESD), Level 4
	EN61000-4-3(RS),Level 3
	EN61000-4-4(EFT),Level 4
	EN61000-4-5(Surge),Level 4
	EN61000-4-6(CS),Level 3
	EN61000-4-8,Level 5
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Operating Temperature	-40℃～+85℃
Storage Temperature	-45℃～+85℃
Relative Humidity	5～95%,non-condesing
Casing	Strengthened corrugated metal casing
Protection grade	IP40
Dimension(L*W*H)	154*143*58mm
Installation	Din rail
Weight	730g
Input Voltage Range	9-36VAC/9-50VDC redundant input
Idle Consumption	0.33A@12VDC(Max)
Full -load Consumption	0.57A@12VDC(Max)
Connection	5.08mm industrial terminal
Protection	Overload Current Protection; Redundancy protection
Processing Type	Store & forward, wire speed switching
Switching bandwidth	50Gbps
Packet forwarding speed	37.2Mpps
MAC Address	8K
Buffer Memory	512KB
Priority Queue	4
VLAN number	4K
VLAN ID	1-4096
Multicast groups	256

Optional Accessories (can be purchased separately)

· **SFP-G-3155-J** , 1Gbps SFP optical transceiver(T:1310nm/R:1550nm), single mode ,single fiber,20km

· **SFP-G-5531-J** , 1Gbps SFP optical transceiver(T:1550nm/R:1310nm), single mode ,single fiber,20km

· **SFP-G-4-4955-J** , 1Gbps SFP optical transceiver(T:1490nm/R:1550nm), single mode ,single fiber,40km

· **SFP-G-4-5549-J** , 1Gbps SFP optical transceiver(T:1550nm/R:1490nm), single mode ,single fiber,40km

· **SFP-G-6-4955-J**, 1Gbps SFP optical transceiver(T:1490nm/R:1550nm), single mode ,single fiber,60km

· **SFP-G-6-5549-J** , 1Gbps SFP optical transceiver(T:1550nm/R:1490nm), single mode ,single fiber,60km

· **OM-SFP-G-D-31-J**, 1.5Gbps SFP optical transceiver(1310nm), single mode ,dual fiber,20km

Package Checklist

· Ethernet switch
· Hardware installation guide(printed)
· Warranty Card

SERVICES:
Guaranteed Warranty

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