

5-Port 10/100TX Industrial Fast Ethernet Switch (-40~75 degrees C operating temperature)



Slim Type with more Practicability and Convenience

PLANET ISW-501T, an Industrial 5-port Fast Ethernet Switch, provides non-blocking wire-speed performance in harsh industrial environment. It also provides 5-port 10/100BASE-TX RJ45 copper interfaces delivered in an IP30 rugged, strong case with redundant power system. Its slim case is suitable for such applications as surveillance system deployments, control management and wireless service in climatically demanding environments with wide temperature range from -40 to 75 degrees C.

Energy Saving with Lower Power Consumption

The ISW-501T, adopting the advanced green networking technology, provides the IEEE 802.3az protocol based power saving. This feature makes the ISW-501T consume very low power in full load operation mode, which helps conserve energy effectively but maintains high performance efficiently.

Stable Performance under Difficult Environments

The ISW-501T provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets. Being able to operate under the temperature range from -40 to 75 degrees C, the ISW-501T can be placed in almost any difficult environment. The ISW-501T also possesses an integrated power supply source with wide range of voltages (12 to 48V DC, 24V AC) for worldwide high availability applications requiring dual or backup power inputs.



Robotic Automation System

100BASE-TX UTP

Physical Port

- 5-port 10/100BASE-TX RJ45 with auto MDI/MDI-X function

Layer 2 Features

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX Ethernet standard
- Supports auto-negotiation and 10/100Mbps half/full duplex mode
- High performance Store and Forward architecture; runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- Backplane (switching fabric): 1Gbps
- Integrated address look-up engine, supporting 1K absolute MAC addresses
- Automatic address learning and address aging

Industrial Case & Installation

- IP30-rated metal case
- DIN rail and wall-mount design
- 12 to 48V DC, redundant power with polarity reverse protection function and connective removable terminal block for master and slave power, 24V AC power support
- Lower Power Consumption device in full load operation mode
- Supports EFT protection for 6000 VDC for power line
- Supports 6000 VDC Ethernet ESD protection
- -40 to 75 degrees C operating temperature
- Free fall, shock-proof and vibration-proof for industries

Robust Switch Performance

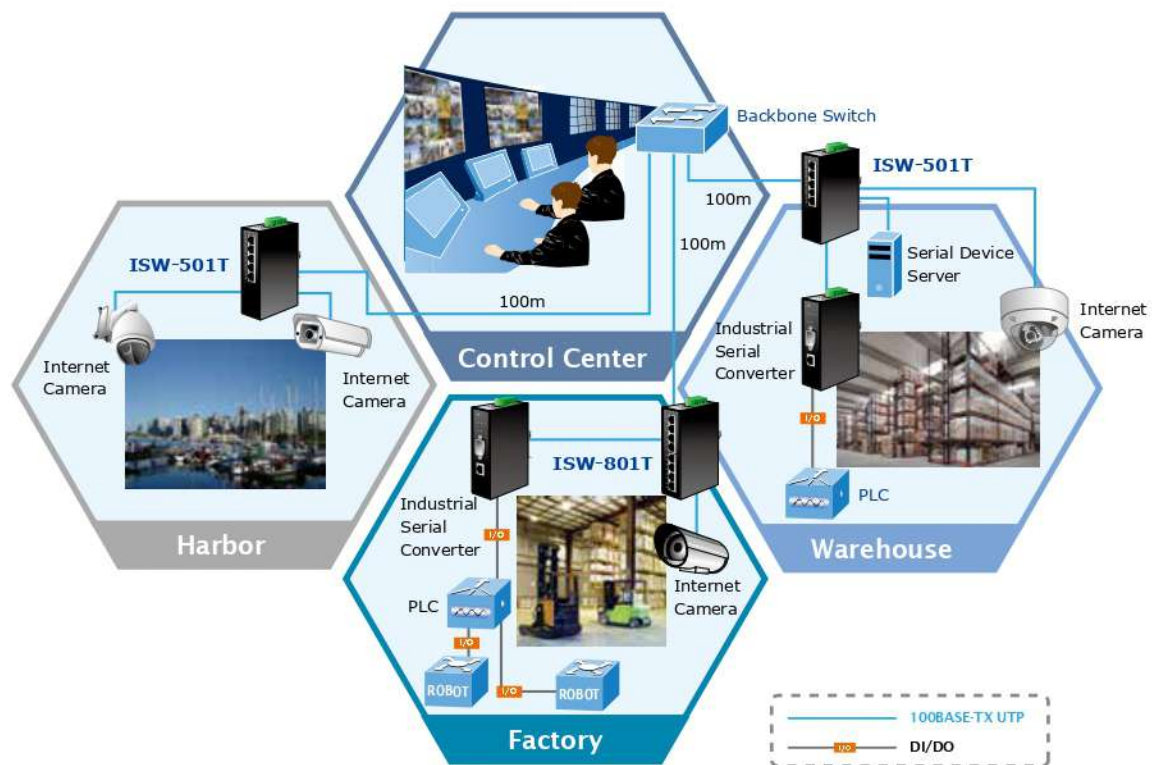
Built in a high-performance switch architecture, the ISW-501T comes with five 10/100Mbps Fast Ethernet ports providing non-blocking switch fabric and wire-speed throughput as high as 1Gbps, and the 1K MAC address. Thus, the ISW-501T can transfer wire-speed packets without the risk of packet loss. The flow control function enables the ISW-501T to provide fast and reliable data transfer.

All of the RJ45 copper interfaces in the ISW-501T support 10/100Mbps auto negotiation for optimal speed detection through RJ45 Category 5 or 5e cables. The standard auto-MDI/MDI-X support can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.

Applications

Industrial Area Switch for Data Collection and Forwarding

The ISW-501T's IP30-rated metal case is particularly designed for the most heavy industrial demanding environments, such as factories, harbors, warehouses, and more. When installed at these establishments, it can enhance the work performance of these establishments by speedily transferring incoming and outgoing data.

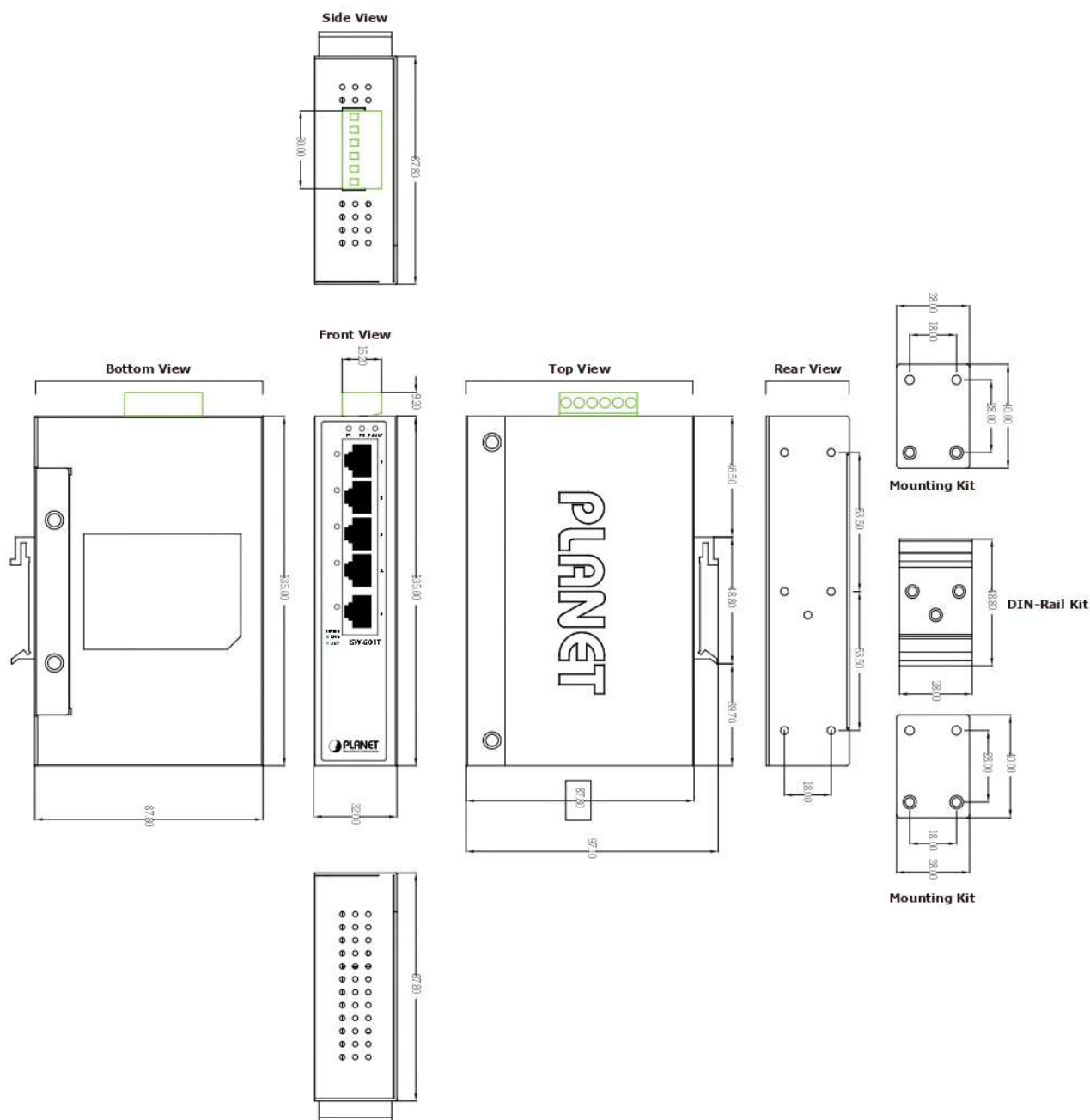


Specifications

Model	ISW-501T
Hardware Specifications	
10/100BASE-TX Auto MDI/MDIX Ports	5
LED Indicators	3 x LED for System and Power: – Green: DC Power 1 – Green: DC Power 2 – Green: Power Fault 1 x LED for each Copper Port – Green: 10/100 LNK/ACT
Enclosure	IP30-rated metal case
Dimensions (W x D x H)	135 x 87 x 32 mm
Weight	400g
ESD Protection	6KV DC
EFT Protection	6KV DC
Power Requirements	12~48V DC, redundant power with polarity reverse protection function, 24V AC power support
Power Consumption/Dissipation	1.6 watts/5.4BTU
Installation	DIN rail kit and wall-mount ear
Alarm	Provides one relay output for power failure Alarm relay current carry ability: 3A @ DC 30V
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2
Switch Specifications	
Switch Processing Scheme	Store-and-Forward
Address Table	1K
Buffer Memory	Embedded 448K bits packet buffer
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Switch Fabric	1Gbps
Throughput (packet per second)	0.74Mpps
Network Cables	10BASE-T: 2-pair UTP Cat. 3, 4, 5, up to 100 meters 100BASE-TX: 2-pair UTP Cat. 5, 5e up to 100 meters
Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5% to 95%, Storage: 5% to 95% (non-condensing)
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (free fall) IEC60068-2-27 (shock-proof) IEC60068-2-6 (vibration-proof)

Ordering Information

ISW-501T	5-Port 10/100TX Industrial Fast Ethernet Switch (-40~75 degrees C operating temperature)
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Dimensions (unit = mm)

Related Products

ISW-511/ISW-511S15	4-Port 10/100BASE-TX + 1-Port 100BASE-FX Industrial Fast Ethernet Switch (-10~60 degrees C operating temperature)
ISW-511T/ISW-511TS15	4-Port 10/100BASE-TX + 1-Port 100BASE-FX Industrial Fast Ethernet Switch w/Wide Operating Temperature (-40~75 degrees C)
ISW-621/ISW-621S15	4-Port 10/100BASE-TX + 2-Port 100BASE-FX Industrial Fast Ethernet Switch (-10~60 degrees C operating temperature)
ISW-621T/ISW-621TS15	4-Port 10/100BASE-TX + 2-Port 100BASE-FX Industrial Fast Ethernet Switch w/Wide Operating Temperature (-40~75 degrees C)
ISW-801T	8-Port 10/100BASE-TX Industrial Fast Ethernet Switch w/Wide Operating Temperature (-40~75 degrees C)

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231,
Taiwan (R.O.C.)

Tel: 886-2-2219-9518

Email: sales@planet.com.tw

Fax: 886-2-2219-9528

www.planet.com.tw



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ISW-501Tv2