

# 5-Port 10/100Mbps Industrial Fast Ethernet Switch for Wide Operating Temperature Applications

## General Description

The PLANET ISW-501T entry level Industrial Ethernet Switch is industrially hardened Ethernet Switch specifically designed to operate reliably in electrically harsh and climatically demanding environments.

The ISW-501T provides a high level of immunity to electromagnetic interference and heavy electrical surges typical of environments found on plant floors or in curb side traffic control cabinets. The feature of operating temperature range of -40 to +75 Degree C coupled with hazardous location certification (Class 1 Division 2) allows the switch to be placed in almost any location.

The ISW-501T is packaged in compact, IP-30 standard aluminium that allows either DIN or panel mounting for efficient use of cabinet space. The switch provides an integrated power supply with a wide range of voltages (12 to 48V DC) for worldwide operability or dual-redundant, reversible polarity, 24V DC and 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.



## Typical Application





## Key Features

### Hardware

- Complies with IEEE 802.3, IEEE 802.3u
- CSMA / CD Protocol
- RJ-45 Port support auto MDI / MDI-X function
- Wide-range redundant power design
- Store and forward switch architecture
- DIN rail and 3-way wall mount design

### Industrial Conformance

- 12~48V DC, redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- - 40 to + 75 Degree C operation temperature
- IP-30 Aluminium case
- EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6
- UL, cUL, CE / EN60950 safety
- Stability testing with IEC60068-2-32(Free fall), IEC60068-2-27(Shock) and IEC60068-2-6 (Vibration)



## Specification

Model	ISW-800
Standard	IEEE 802.3, IEEE802.3u, 10/100Base-TX
10/100Mbps TP	5
Protocol	CSMA/CD
Switching Architecture	Store and forward
Transfer Rate	144,880 pps for Ethernet port and 1448,800 pps for Fast Ethernet port
MAC address	2k
Memory Buffer	1Mbit
Network Cable	10Base-T : 2-pair UTP/STP Cat 3, 4, 5 cable 100Base-TX: 2-pair UTP/STP Cat. 5 cable 10Base-T: EIA/TIA-568 100-ohm (100m)
LED	Per port : Link/Activity (Green), Full duplex/Collision (Green) Per unit: Power 2 (Green), Power 1 (Green), Power (Green)
Back-plane	1.6Gbps
Packet throughput ability	1.19Mpps@64bytes (8TX)
Power Supply	12~48 V DC, Redundant power with polarity reverse protection function
Power Consumption	11 Watts / 37BTU
Installation	Provide DIN rail kit and wall mount ear for 3-way installation
Operating environment	<b>-40~+75 Degree C, 5~90%RH (Non-condensing)</b>
Storage environment	-40~85 Degree C, 5~90%RH (Non-condensing)
Dimension (W x D x H)	54 x 105 x 155 mm
Emission	FCC Class A, CE mark
Stability testing	IEC60068-2-32(Free fall), IEC60068-2-27(Shock), IEC60068-2-6(Vibration)