

4-Port 10/100Base-TX + 2-Port 100Base-FX SFP Industrial Ethernet Switch with Wide Operating Temperature



Highly Convenient and Distance Extendable Industrial Robust Switch

PLANET ISW-621TF is a new Industrial Ethernet Switch that can operate under WIDE-TEMPERATURE environment ranging from -40 up to 75 degrees C and is equipped with two 100Base-FX SFP slots. With two mini-GBIC 100Base-FX SFP (Small-Form Factor Pluggable) interfaces supported, the deployed distance of the ISW-621TF can be extended from 2 kilometers (via multi-mode fiber) up to above 60 kilometers (via single-mode fiber), respectively. In other words, the ISW-621TF provides more flexibility for Transportation, Manufacturing, Security and Surveillance with distance extension without any limitation and is a suitable model either for long or short distance network deployment.

Hardened Design

The ISW-621TF can operate stably in harsh environment with wide operating temperature support. It also 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.

Easy Installation and Wide Range of Power Usages

The ISW-621TF is designed with a compact case that allows either DIN rail or panel mounting for the efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Physical Port

- 4-port 10/100Base-TX RJ-45 with auto MDI/MDI-X function
- 2-port 100Base-FX SFP interface

Layer 2 Features

- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX Ethernet standard
- Supports auto negotiation and 10/100Mbps half / full duplex mode for each copper port
- High performance Store and Forward architecture
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- Backplane (Switching Fabric): 1.2Gbps
- Integrated address look-up engine, supporting 2K absolute MAC addresses
- 1Mbit on-chip frame buffer
- Automatic address learning and address aging
- CSMA/CD Protocol

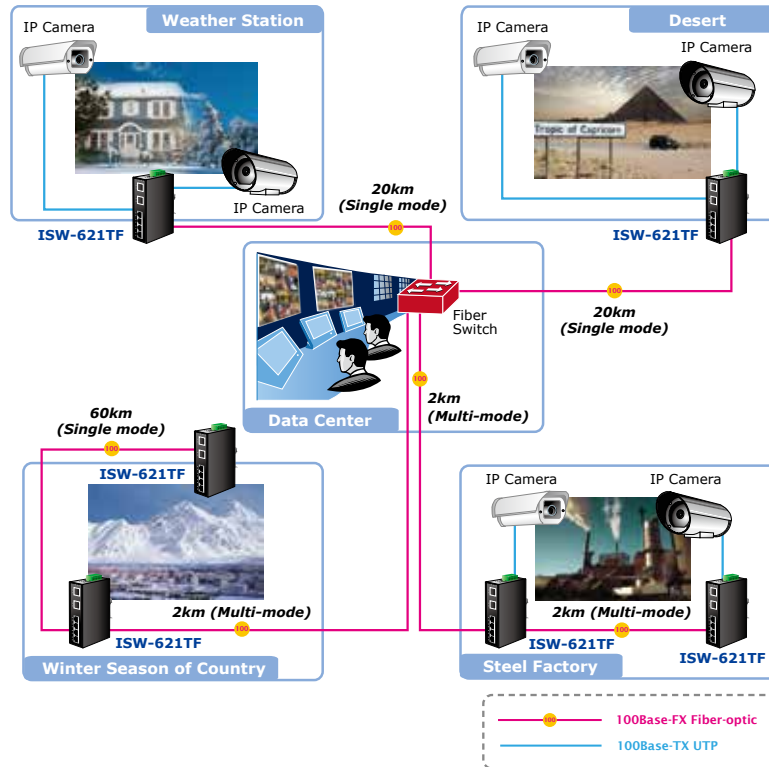
Industrial Case / Installation

- IP30 metal case protection
- DIN rail and wall mount design
- 12 to 48V DC, redundant power with polarity reverse protection and connective removable terminal block for master and slave power
- Supports EFT protection 6KV DC for power line
- Supports 6KV DC Ethernet ESD protection
- -40 to 75 degrees C wide operating temperature

Applications

Industrial Switch for High Performance Data Collection and Forwarding

The ISW-621TF is equipped with four 10/100Mbps ports offering auto MDI / MDIX feature, and two 100Base-FX SFP slots providing 1.2Gbps non-blocking switch fabric and the 2K MAC address table so that they can perform wire-speed packets transfer without risk of packet loss. The ISW-621TF, which come in the slim type IP30 metal case, is ideal for the most heavy industrial demanding environments.



Specifications

Model	ISW-621TF	
Hardware Specifications		
Copper Interface	Ports	4 x 10/100Base-TX, auto negotiation, auto-MDI/MDI-X
	Cable	10Base-T: 2-pair UTP Cat. 3, 4, 5 cable (100 meters, max.) 100Base-TX: 2-pair UTP Cat. 5, 5e, 6 cable (100 meters, max.)
Optical Interface	Port / Type	2 x 100Base-FX / LC interfaces
	Cable	Multi-mode: 50/125µm / 62.5/125µm fiber Single-mode: 9/125µm fiber
Dimensions (W x D x H)	Cable	
Weight	442g	
Power Requirements	12~48V DC, Redundant power with polarity reverse protection	
Power Consumption / Dissipation	Max. 16 watts / 54 BTU	
Installation	DIN rail kit / wall mount ear	
Alarm	Provides one relay output for power failure Alarm relay current carry ability: 1A @ DC 24V	
Switch Specifications		
Switch Processing Scheme	Store-and-Forward	
Address Table	2K entries	
Buffer	1Mbit	
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex	
Switch Fabric	1.2Gbps	
Throughput (Packet Per Second)	0.89Mpps @ 64Bytes	

Standards Conformance

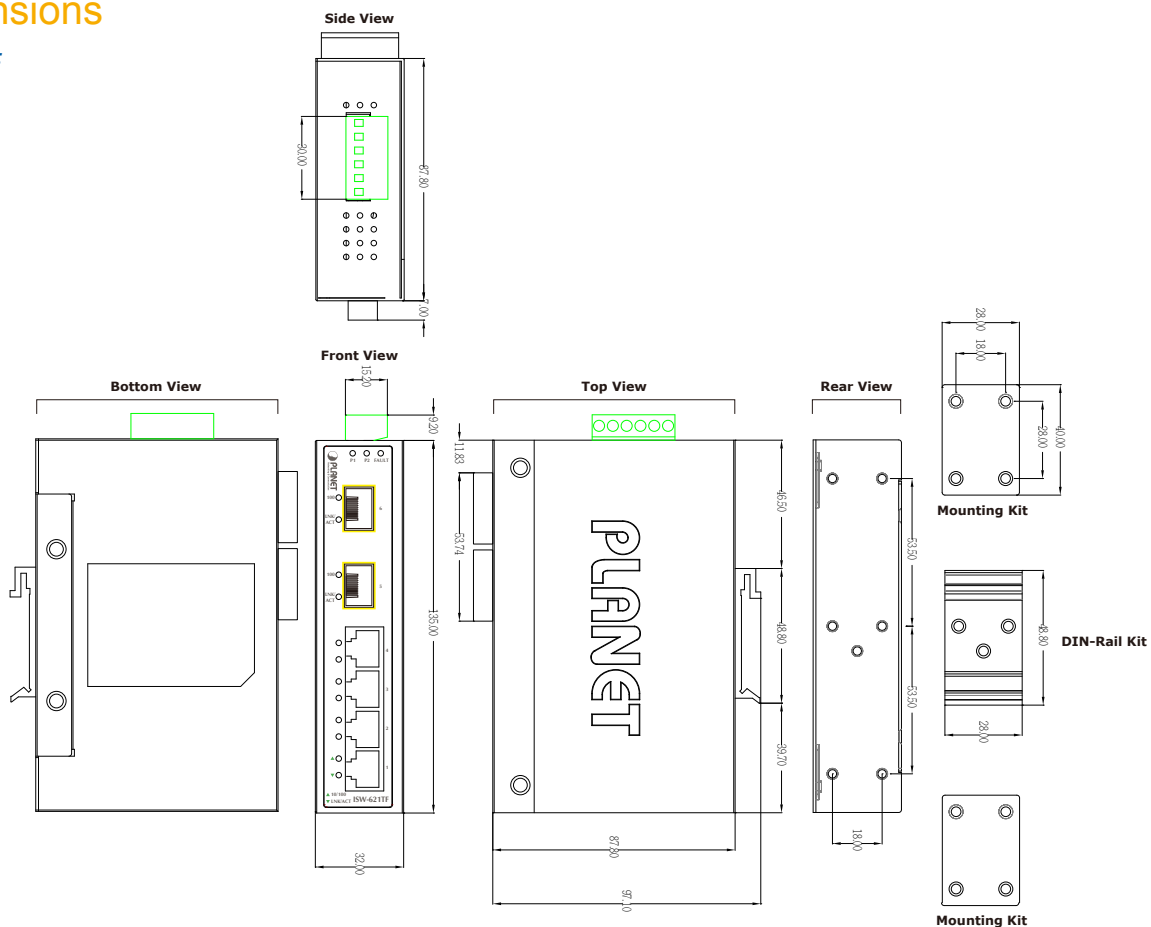
Standards Compliance	IEEE 802.3 Ethernet, 10Base-T IEEE 802.3u Fast Ethernet, 100Base-TX, 100Base-FX IEEE 802.3x Flow Control
Regulation Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

Environment

Temperature	Operating: -40~75 degrees C Storage: -40~85 degrees C
Humidity	Operating: 5~90% Storage: 5~90% (non-condensing)

Dimensions

ISW-621TF:



Dimensions (unit = mm)

Ordering Information

ISW-621TF	4-Port 10/100Base-TX + 2-Port 100Base-FX SFP Industrial Ethernet Switch (-40 ~ 75 degrees C operating temperature)
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Related Product

ISW-621T	4+2 100FX Port Multi-mode Industrial Ethernet Switch — 2km (-40~75 degrees C operating temperature)
ISW-621TS15	4+2 100FX Port Single-mode Industrial Ethernet Switch — 15km (-40~75 degrees C operating Temperature)
ISW-511T	4+1 100FX Port Multi-mode Industrial Ethernet Switch — 2km (-40~75 degrees C operating Temperature)
ISW-511TS15	4+1 100FX Port Single-mode Industrial Ethernet Switch — 15km (-40~75 degrees C operating Temperature)

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