

# 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

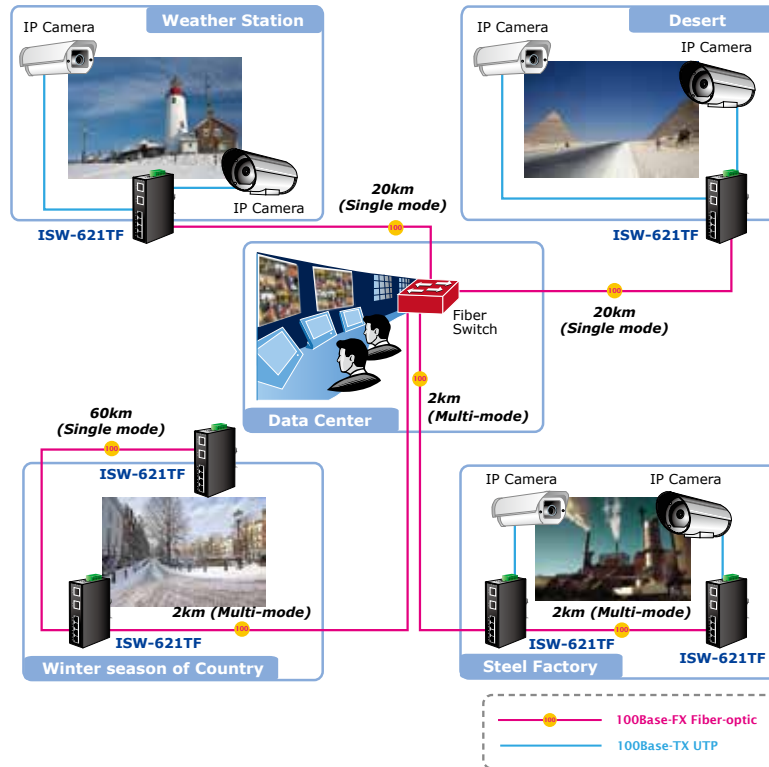
## Industrial Case / Installation

- 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.



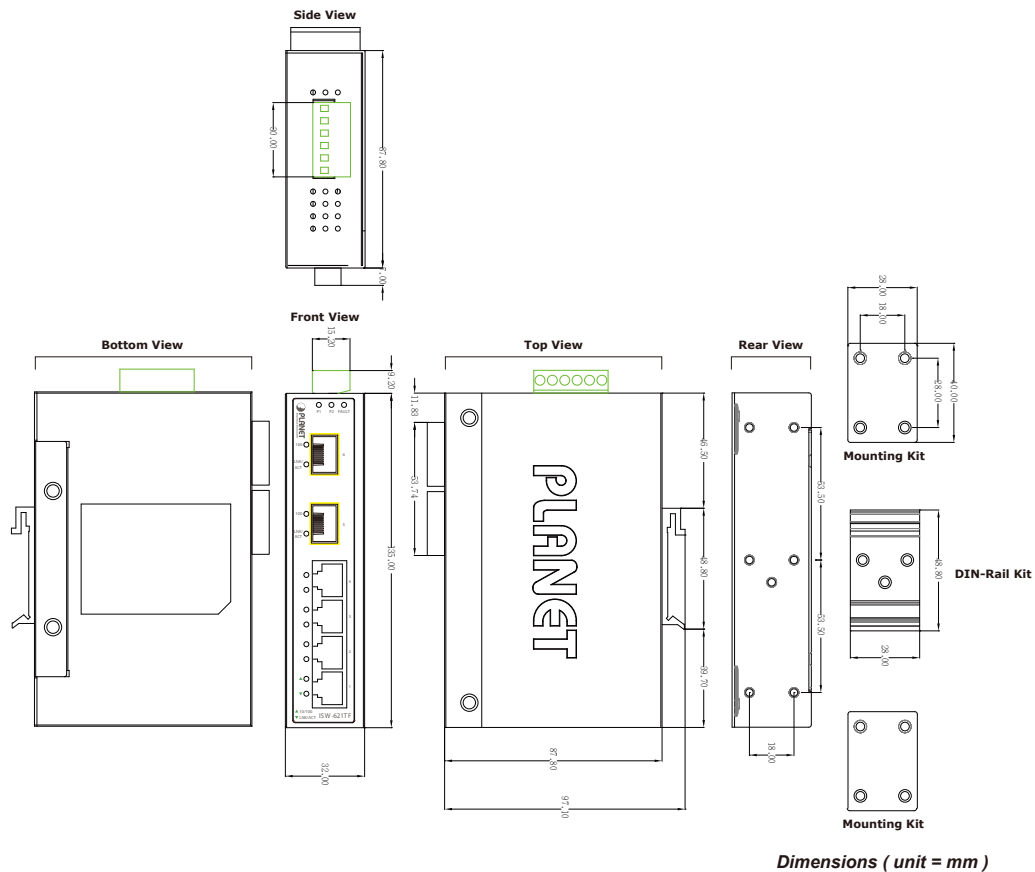
## Specifications

Model	ISW-621TF	
<b>Hardware Specifications</b>		
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	
<b>Switch Specifications</b>		
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:



## 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 )

2015-07

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**VIDELCO** Europe Limited – Professionelle Audio-, Video-, Medien-Technik  
Fon: +49 (0)2102 / 86 39-00 • Fax: +49 (0)2102 / 86 39-17 • info@videlco.eu • www.videlco.eu