

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 equip two SFP 100Base-FX slots. With **two mini-GBIC 100Base-FX SFP** (Small-Form Factor Pluggable) interfaces support, the deployed distance of the ISW-621TF can be extended from 550 meters (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, Manufactory, Security and Surveillance with distance extension without any limitation and is a suitable model either for long or short distance network deployment.

Harden 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 Usage

The ISW-621TF is designed with a compact case that allows either DIN rail or panel mounting for 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.

KEY FEATURES

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, broadcast storm control, 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): 1.2Gbps
- Integrated address look-up engine, supports 2K absolute MAC addresses
- 1Mbit on-chip frame buffer
- Automatic address learning and address aging
- CSMA/CD Protocol

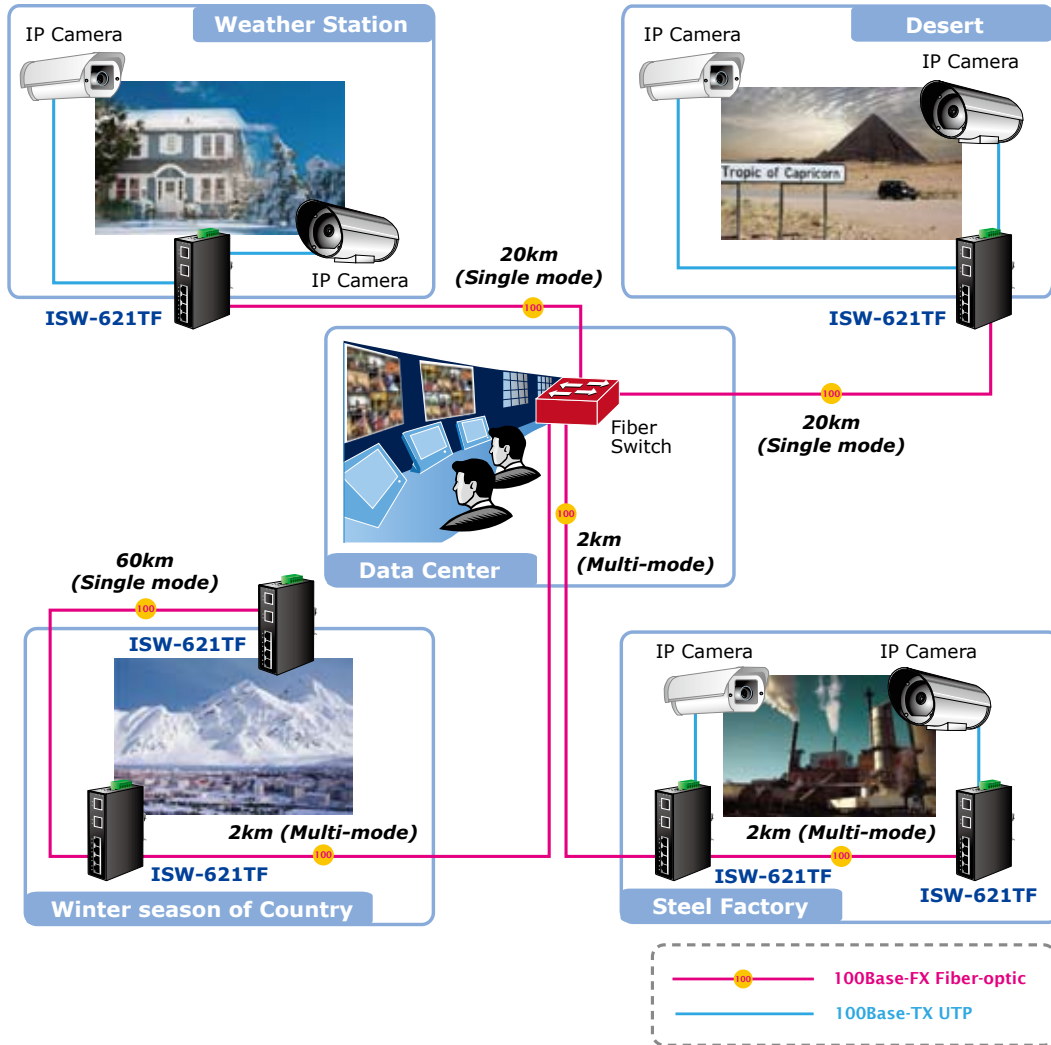
INDUSTRIAL CASE / INSTALLATION

- IP-30 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 Degree C wide operating temperature

APPLICATIONS

Industrial Switch for High Performance Data Collect and Forward

The ISW-621TF equips with four 10/100Mbps ports offering auto MDI / MDIX feature, and two 100Base-FX SFP slots providing 1.2Gps 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 with the slim type IP 30 metal shape is ideal for most Heavy Industrial demanding environments.



SPECIFICATION

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|--|--------------------|---|
| Model | | ISW-621TF |
| Hardware Specification | | |
| Copper | Ports | 4 x 10/100Base-TX, Auto-Negotiation, Auto-MDI/MDI-X |
| | Cable | 10Base-T : 2-pair UTP Cat. 3, 4, 5 cable (100meters, max.) 100Base-TX : 2-pair UTP Cat. 5, 5e, 6 cable (100meters, max.) |
| Optical | Port / Type | 2 x 100Base-FX / LC Interfaces |
| | Cable Mode | Multi-mode: 50/125µm / 62.5/125µm fiber Single-mode: 9/125µm fiber |
| Dimension (W x D x H) | | 135 x 97 x 32 mm |
| Weight | | 442g |
| Power Requirement | | 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 fail Alarm Relay current carry ability: 1A @ DC 24V |
| Switch Specification | | |
| 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 Full-Duplex 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 Degree C Storage: -40~85 Degree C |
| Humidity | | Operating: 5~90% Storage: 5~90% (Non-condensing) |

ORDERING INFORMATION

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| ISW-621TF | 4-Port 10/100Base-TX + 2-Port 100Base-FX SFP Industrial Ethernet Switch (-40 ~ 75 Degree C operate temperature) |
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RELATED PRODUCTS

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|--------------------|--|
| MFB-FX | SFP-Port 100Base-FX Transceiver (1310nm) -2km |
| MFB-F20 | SFP-Port 100Base-FX Transceiver (1310nm) - 20km |
| MFB-F40 | SFP-Port 100Base-FX Transceiver (1310nm) - 40KM |
| MFB-F60 | SFP-Port 100Base-FX Transceiver (1310nm) - 60KM |
| MFB-FA20 | SFP-Port 100Base-BX Transceiver (WDM,TX:1310nm) -20km |
| MFB-FB20 | SFP-Port 100Base-BX Transceiver (WDM,TX:1550nm) -20km |
| MFB-TFX | SFP-Port 100Base-FX Transceiver (1310nm) -2km (-40~75°C) |
| MFB-TF20 | SFP-Port 100Base-FX Transceiver (1310nm) - 20km (-40~75°C) |
| ISW-621 | 4+2 100FX Port Multi-mode Industrial Ethernet Switch - 2km (-10~60 Degree C operate temperature) |
| ISW-621S15 | 4+2 100FX Port Single-mode Industrial Ethernet Switch - 15km (-10~60 Degree C operate temperature) |
| ISW-621T | 4+2 100FX Port Multi-mode Industrial Ethernet Switch - 2km (-40~75 Degree C operate temperature) |
| ISW-621TS15 | 4+2 100FX Port Single-mode Industrial Ethernet Switch - 15km (-40~75 Degree C operate temperature) |