



Industrial 10G/2.5G/1G/100M

Copper to 10GBASE-X SFP+

Media Converter



IES7211-1TE1TF-DC



Key Features:

Ports: Provide 1*100/1G/2.5G/10G BASE-T RJ45 interface with auto MDI/MDI-X function, 10GBASE-X SFP+ slot interface

Standard: IEEE 802.3u/802.3ab/802.3bz/802.3ae Ethernet standard compliant

Self-adaption: Supports auto-negotiation 100Mbps, 1Gbps half/full duplex and 2.5/10Gbps full duplex mode

Industrial Installation: Din Rail mounting installation

Wide Application: Designed for Railway, traffic etc some Industrial environment

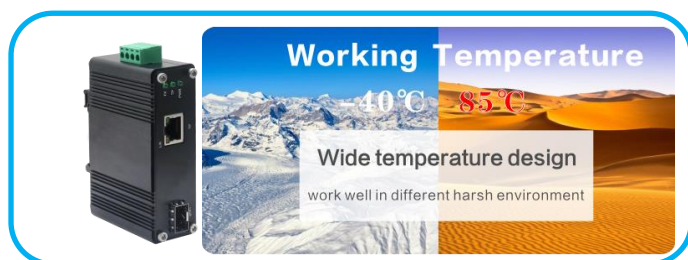
Surge protection: Protect the device from lighting surges and others electrical hazards

Working Temperature: -40 to 85 degrees operating temperature

Considerate Design: IP40 Industrial design with dual power input

Industrial-grade 10G Ethernet Media Converter

IES7211-1TE1TF-DC is compact Industrial-grade 10G Ethernet Media Converter providing non-blocking wire-speed performance and great flexibility for 10 Gigabit Ethernet extension in harsh industrial environment. It is equipped with one 100Mbps, 1Gbps, 2.5Gbps and 10GBASE-T RJ45 copper interface and one 10GBASE-X SFP+ fiber optic interface delivered in an IP40 rugged but compact-sized case with redundant power system. The IES7211-1TE1TF-DC is ideal for wide applications from copper to fiber media conversion wherever 10Gigabit bandwidth is required in climatically demanding environments with wide temperature ranging from -40 to 80 degrees C.

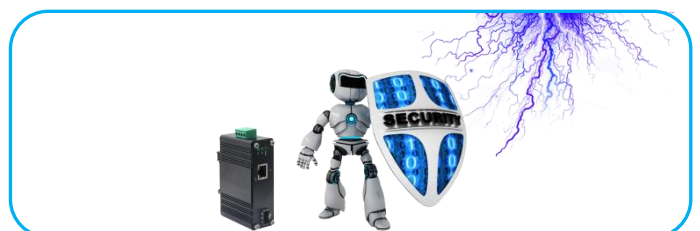


Environmentally Hardened Design

With the **IP40** metal industrial case which provides a high level of immunity against electromagnetic interference and heavy electrical surges, Being able to operate under the temperature range from **-40 to 85 degrees C**, the IES7211-1TE1TF-DC can be placed in almost any difficult environment.

Surge Protection Design

provides contact discharge of $\pm 8\text{KV}$ DC and air discharge of $\pm 15\text{KV}$ DC for Ethernet ESD protection. It also supports $\pm 6\text{KV}$ surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.



IES7211-1TE1TF-DC

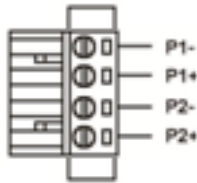
Industrial-grade 10G Ethernet Media Converter

Technical Datasheet

| Model | IES7211-1TE1TF-DC | |
|---------------------------|---|--------|
| Hardware Specifications | | |
| Connector | 1* 10G/2.5G/1G/100M BASE-T RJ45 auto MDI/MDIX ports | |
| Optical Port | 1* 10G Base-X SFP+ Slots (LC connector) | |
| LED Display | Power Indicator: PWR(green).Network Indicator: L/A(yellow) | |
| | FX: SFP+ Fiber Port Status | |
| | TP: Ethernet Status | |
| Thermal Fan | Fanless Design | |
| Installation | Din Rail | |
| Switch Architecture | Store and Forward | |
| Transmission model | IEEE802.3X full-duplex and Backpressure half-duplex | |
| Switch Performance | Backplane bandwidth | 20Gbps |
| | Packet forwarding rate | 21Mpps |
| | MAC address | 8k |
| Power requirement | DC 12V~48V | |
| ESD Protection | 6KV ESD | |
| Dimension(WxDxH) | 30mm x70mm x 95mm(1.18in x 2.76in x7.74in) | |
| Weight | <0.25kg | |
| Network standard | IEEE802.3i 10 BASE-T | |
| | IEEE802.3u 100 BASE-TX | |
| | IEEE802.3ab 1000BASE-T | |
| | IEEE 802.3bz 2.5GBASE-T | |
| | IEEE 802.3an 10GBASE-T | |
| | IEEE 802.3ae 10Gbps Ethernet | |
| | IEEE802.3x Flow Control | |
| | IEEE802.3az EEE | |
| Forward & Filtering Rate: | 100Mbps; 1000Mbps; 2.5Gbps; 10Gbps | |
| Network Cables: | 10G/2.5G/1G/100M BASE-T: | |
| | 10G - Cat 6A/7 | |
| | 1G/2.5G - Cat 5e/6/6A/7 | |
| | 100M – Cat 5/5e/6/6A/7 | |
| | Cat 5/5e/6/6A/7 UTP cable (100 meters, max.) | |
| | EIA/TIA-568 100-ohm STP (100 meters, max.) | |
| | 10GBASE-LR/SR/BX: | |
| | 50/125 μ m or 62.5/125 μ m multi-mode fiber optic cable, up to 300m | |
| | 9/125 μ m single-mode fiber optic cable, up to 80km | |
| Environment | | |
| Safety | FCC Part15 Class A,CE,RoHs | |
| Environment specification | Operating temperature: -40℃~85℃ , operating humidity: 5%~95% | |
| | Storage temperature: -40℃~85℃ , storage humidity: 5%~95% | |

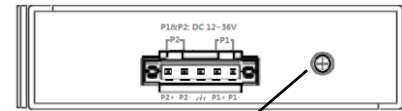
Installation Models

Power Terminal

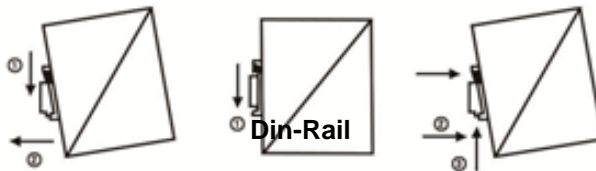


- ◆ 4-pin 3.81mm-spacing plug-in terminal
- ◆ 12V-48VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection

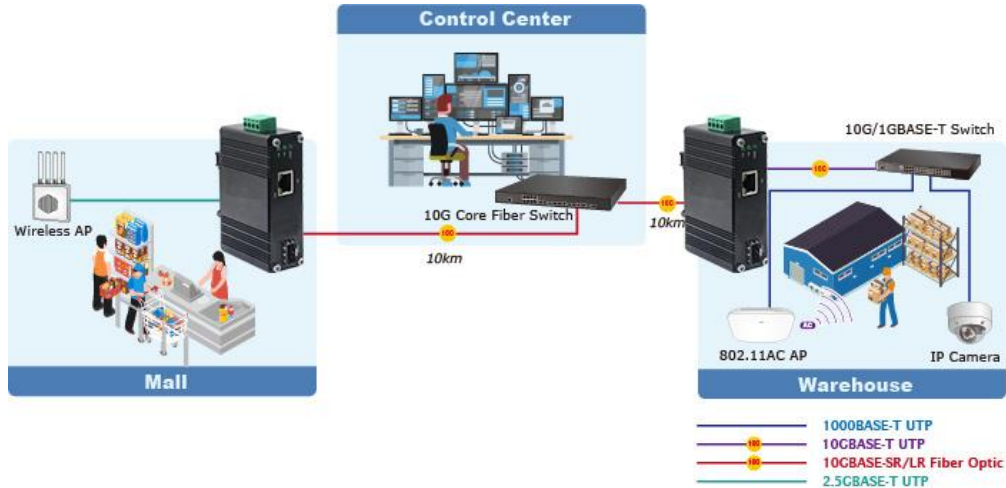
Earth Protection



Ground terminal or screw



Applications



Ordering Information

IES7211-1TE1TF-DC

Industrial 10G//2.5G/1G/100M Copper to 10GBASE-X SFP+ Media Converter.SFP module excluded,Din rail,