TesPro® Since2002

TS-250-0F8T

Industrial Ethernet Switch Datasheet



The Tespro TS-250-0F8T is the compact size unmanaged industrial grade Ethernet switch with 5-port 10/100Base-TX RJ45. It is the high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, such as wide range power DC/AC input, redundant power design with polarity reverse protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C~+75°C as well as high-level EMI/EMC capability and so on. It is the best choice for heavy industrial field where installation space is limited and restricted



5-Port Fast Ethernet
5 × 10/100Base-TX RJ45 Ports

Redundant Power
DC 9–58V / AC 15–40V

Surge & ESD Protection
4 kV Surge Protection

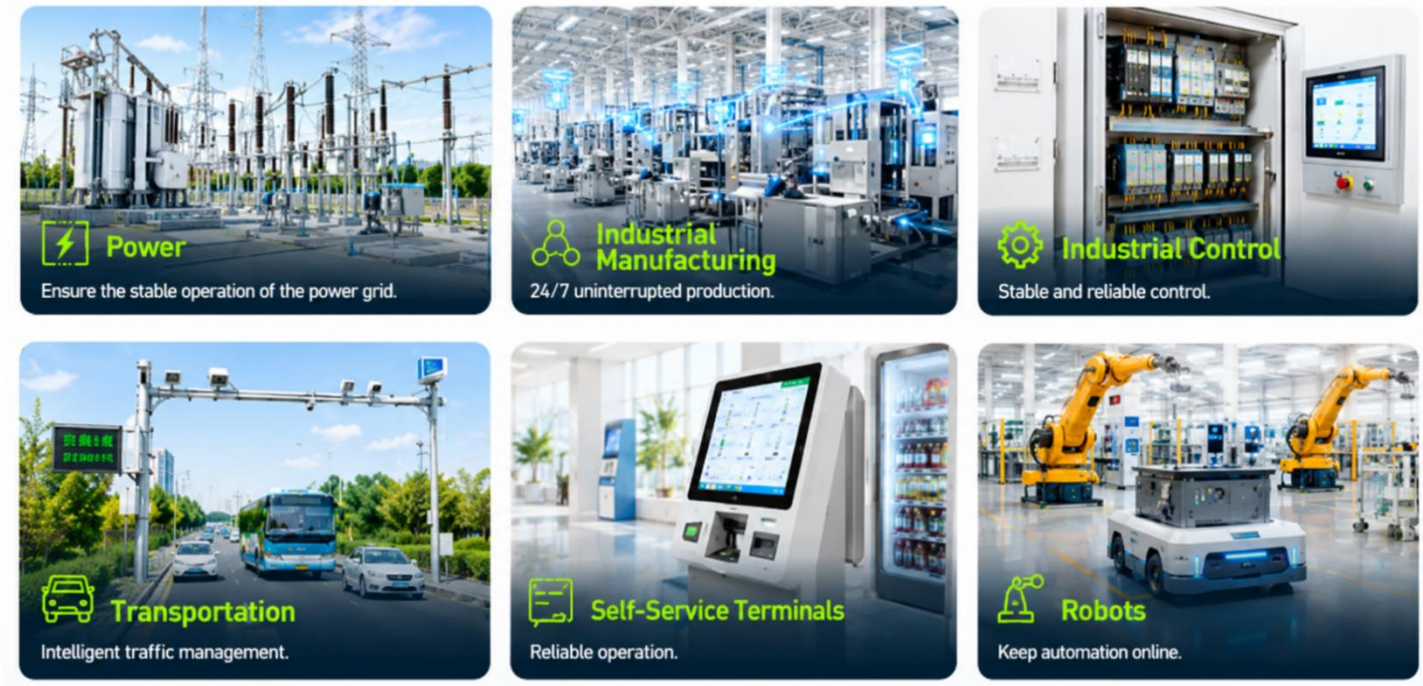
Wide Temperature
-40°C to +75°C Operation

CE RoHS COMPLIANT TÜV SÜD

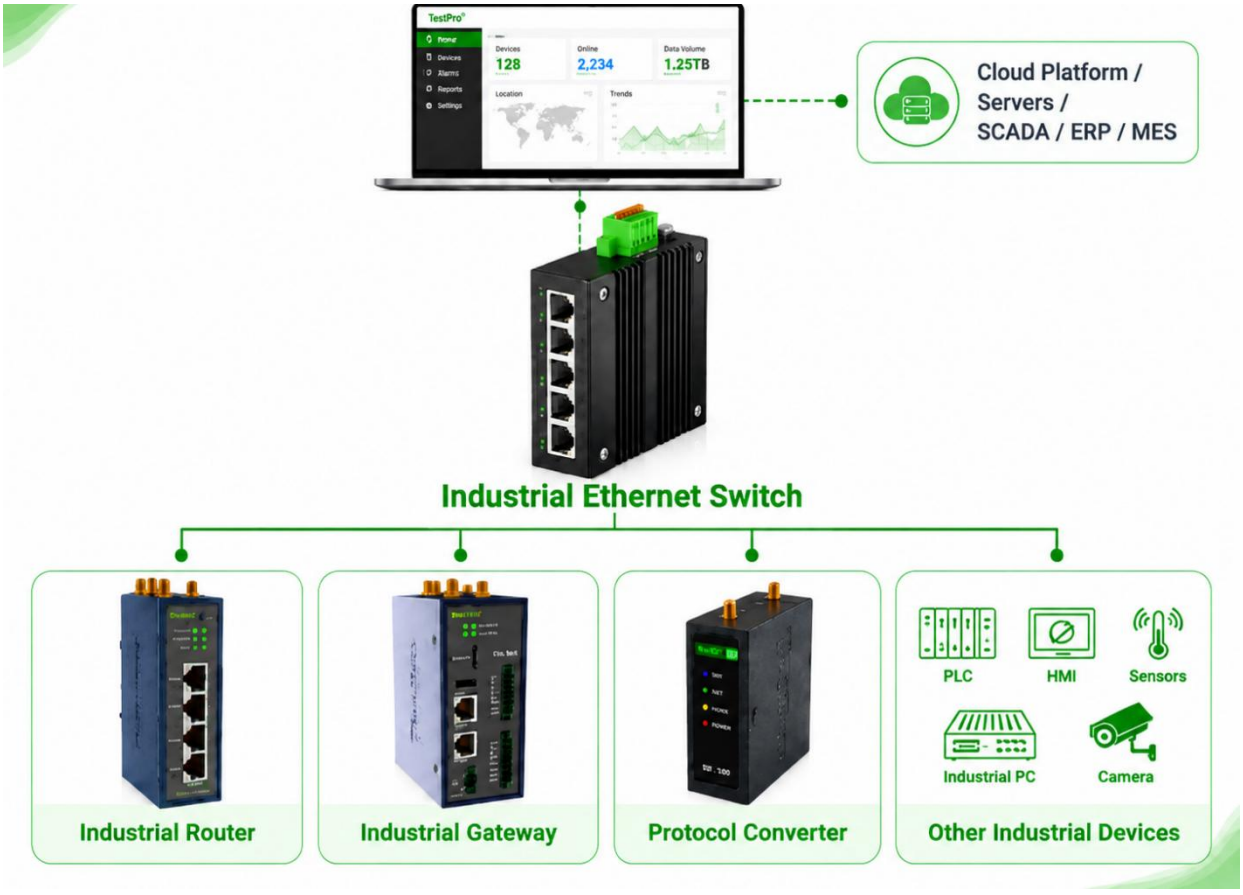
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https://www.tespro.com
Email: info@tespro.com / sales@tespro.com
Mobile/whatsapp：+852-4609 4648，+1-213 610 4797，+86-13928019921
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Typical application scenarios



Applied Topology



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Core Advantages

5-Port Fast Ethernet Connectivity

Equipped with five 10/100Base-TX RJ45 ports, providing reliable wired Ethernet connectivity for industrial devices.

Redundant AC/DC Power

Supports redundant DC 9–58V and AC 15–40V power inputs, with built-in reverse polarity protection

Industrial Surge & ESD Protection

Provides 4 kV surge protection and ESD protection up to 15 kV air discharge and 8 kV contact discharge.

Reliable Switching Performance

Features 1G switching capacity, 0.744 Mpps forwarding rate, and an MTBF of over 200,000 hours.

Compact Fanless DIN-Rail Design

Features an IP40 fanless design and DIN-rail mounting for space-constrained industrial installations.

Wide Operating Temperature

Operates reliably from - 40°C to + 75°C with 5% – 95% non-condensing humidity.

Features

- 5*10/100Base-TX RJ45 ports.
- DC9-58V, AC 15~40V input, redundant power supply with polarity reverse protection.
- Support 2Kbytes Jumbo frame.
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection.
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40 ℃ ~+75℃

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Technical Specifications

Category	TS-250-0F8T
Network Interfaces	
Fiber Ports	0
Copper RJ45 Ports	5
Ethernet	5 × 10/100Base-TX RJ45
Ethernet Standards	IEEE 802.3 10Base-T Ethernet; IEEE 802.3u Fast Ethernet; IEEE 802.3x Full-Duplex Flow Control; IEEE 802.3az Energy Efficient Ethernet
LED Indicators	Power (P): Green — Off: device is powered off or has failed; On: normal power. Ports 1–5 Link/Act: Green — Off: link down; On: link up; Blinking: data transmission/reception.
Power Supply	
Input Voltage	Redundant power input: DC 9–58V, AC 15–40V
Input Current	0.5A Max
Total Power Consumption	≤4W (Full Load)
Power Connector	Removable 4-pin terminal block
Reverse Polarity Protection	Supported
Switching Performance	
Switching Capacity	1G
Packet Forwarding Rate	0.744 Mpps
MAC Address Table	2K
VLAN	Supports transmission of packets with VLAN tags (VID 1–4096)
Buffer	2K
Forwarding Delay	<10 μs
Jumbo Frame	Supports 2 KB
MDI/MDIX	Supported
Environmental Conditions	
Operating Temperature	-40°C to +75°C
Storage / Transportation Temperature	-40°C to +85°C
Relative Humidity	5%–95% (Non-condensing)

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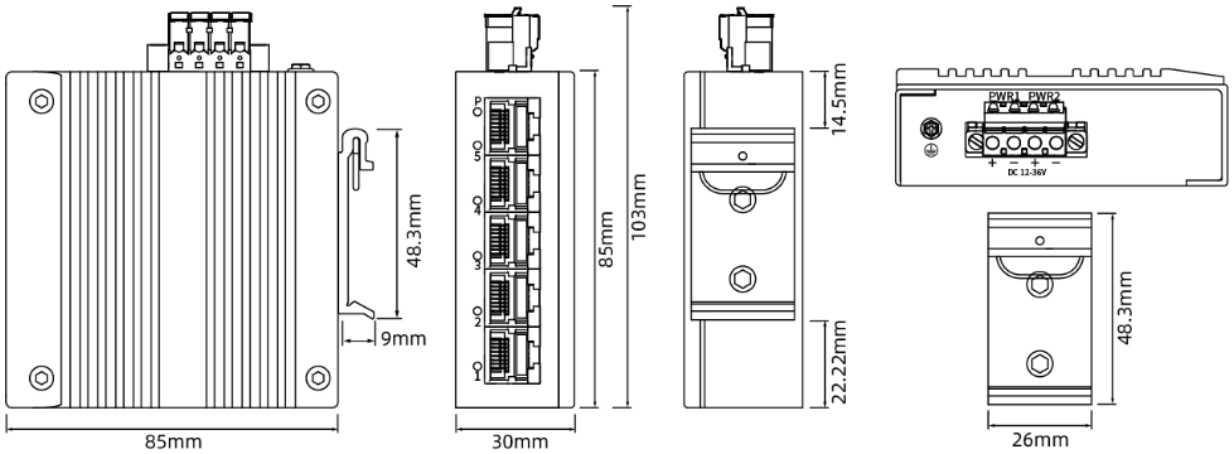
Technical Specifications

Category	TS-250-0F8T
Mechanical Characteristics	
Dimensions (W × D × H)	30 × 85 × 85 mm
Protection Rating	IP40
Installation Method	DIN-rail
Cooling Method	Fanless
Product Weight	0.4 kg
Industrial Protection & Reliability	
Power Surge Protection	IEC 61000-4-5 Level 3 (4 kV/2 kV, 8/20 μs)
Ethernet Surge Protection	IEC 61000-4-5 Level 3 (4 kV/2 kV, 10/700 μs)
ESD Protection	IEC 61000-4-2 Level 4 (15 kV Air / 8 kV Contact)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Certifications & Standards	
Regulatory Certifications	CCC, CE, FCC, RoHS, REACH, UKCA
MTBF	>200,000 hours

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Structure Diagram



Order Information

TS-250-0F8T	Description
TS-250-0F8T	Compact size 5-port 10/100Base-TX RJ45 industrial Ethernet switch, DC 9-58V, AC 15~40V input, redundant dual power supply. Operation temperature: -40℃ ~ +75℃

About Tespro

Tespro is an industrial IoT manufacturer with 25 years of experience, specializing in AI computing, industrial IoT, power communication equipment, and software. Its products include industrial gateways, routers, DTUs, optical probes, testing instruments, and management platforms for energy, automation, smart buildings, and commercial applications. With branches in the U.S., U.K., Singapore, Hong Kong, and Zhuhai, Tespro serves 150+ countries and partners with Fortune Global 500 companies.

Global Office Locations

USA: 39 S Hayman Ave, Colorado Springs, CO 80910, US
UK: Flat 601 Ontario Tower, 4 Fairmont Avenue, London, UK, E14 9JA
Australia: 43 Tribeca Cct, North Lakes QLD, Australia 4509
Singapore: 3 Gambas Crescent, #04-01, Nordcom One, Singapore 757088
Hong Kong: Flat 602, 6/F, No. 2C Argyle Street, Mong Kok, Kowloon, HK
China: 2nd Floor, Liti Technology Building, No. 184 Bailian Road, Jida, Zhuhai City

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