

TR-400 Series

MULTIFUNCTIONAL INDUSTRIAL CELLULAR ROUTER

DATA SHEET

The **TR-400 Series** is a new-generation industrial router designed for Industrial IoT applications and enterprise digital transformation. It integrates Wi-Fi 6, 4G/5G cellular networking, rich IoT interfaces and VPN technologies to deliver stable, secure and efficient connectivity. Powered by a dual-core ARM Cortex-A53 processor and running TesproOS, it combines high-performance hardware with an intuitive web management interface for convenient configuration, monitoring and remote management.



Wi-Fi 6
AX3000



4G / 5G +
Gigabit Ethernet



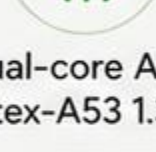
Industrial VPN
& Firewall



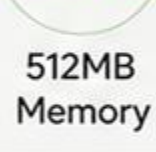
TR-400 Series

HIGH-PERFORMANCE INDUSTRIAL CELLULAR ROUTER

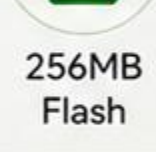
A reliable industrial router for secure IoT networking, remote access and enterprise digital connectivity.



Dual-core ARM
Cortex-A53 1.3GHz



512MB
Memory



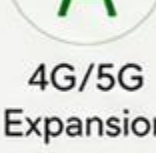
256MB
Flash



Wi-Fi 6
AX3000



5x Gigabit
Ethernet



4G/5G
Expansion



TesproOS
Web UI



Industrial
Routing



Secure
Networking



Flexible
Interfaces



Reliable
Operation

STRONG COMPATIBILITY

The TR-400 Series combines industrial-grade networking interfaces and rich software services, enabling flexible deployment in diverse IoT and enterprise environments.

- 5*/3* x Gigabit Ethernet
- 2 x RS485
- 1 x RS232
- Wi-Fi 6 AX3000
- 4G/5G Mini PCIe
- USB 3.0 / USB 2.0
- VPN / Firewall



Smart Factory
Connect machines, PLCs and sensors for reliable data transmission and remote management.



Remote Office
Provide secure, high-speed network access for distributed teams and critical business systems.



Smart Retail
Enable stable connectivity for POS, digital signage and inventory management systems.



Video Monitoring
Deliver high-bandwidth backhaul and secure transmission for IP cameras and NVR systems.



Rich Service Stack
Advanced routing, DHCP, DDNS, QoS, SNMP and more to simplify deployment and management.



Flexible Connectivity
Multiple wired and wireless options ensure seamless integration with various devices and networks.



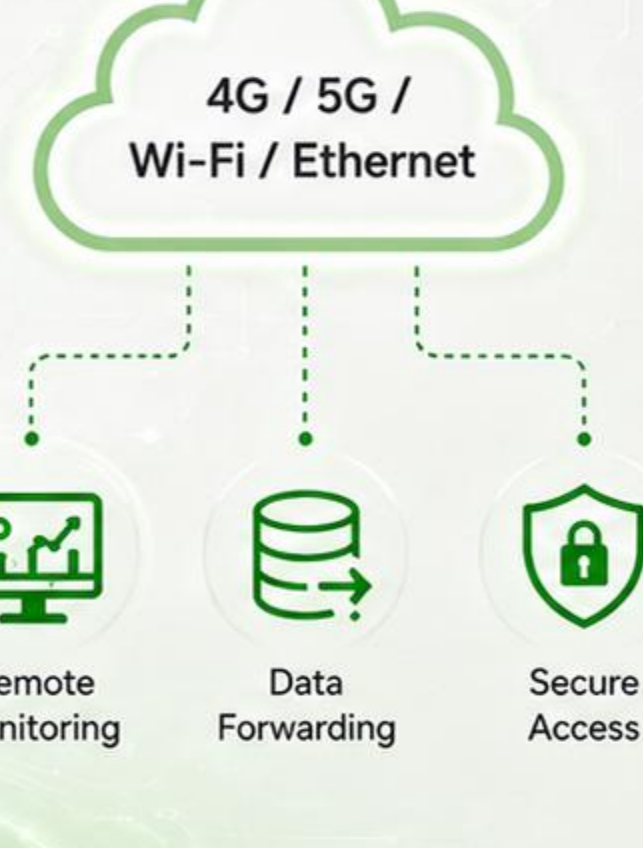
Secure Networking
Built-in VPN, firewall and access control protect data and ensure trusted communications.



Industrial Grade
Fanless, rugged design with wide temperature support for demanding industrial environments.

Flexible Device Access

- Connect industrial devices through Gigabit Ethernet, serial ports and wireless networks.
- Support remote communication, secure transmission and flexible deployment for industrial and enterprise sites.



Flexible Collection
Connects various industrial devices via Ethernet, serial ports and wireless networks.



Protocol Services
Supports multiple industrial protocols and transparent data transmission.



Secure Transmission
VPN, firewall and encryption technologies ensure data security and network reliability.



Easy Integration
Compact size and DIN-rail mounting for quick deployment and seamless system integration.

TR-400 Series Network Connectivity

- Supports 4G / 5G cellular access
- Wi-Fi 6 dual-band connectivity
- Gigabit WAN + 4 Gigabit LAN ports
- OpenVPN / WireGuard / IPsec / PPTP
- Industrial firewall protection



Flexible Wireless Access
Connect anywhere with support for 4G / 5G cellular networks for uninterrupted operations.



WiFi 6 Performance
Next-generation WiFi 6 delivers higher speed, stronger signals, and more device capacity.



Gigabit Networking
Gigabit WAN and 4 Gigabit LAN ports ensure high-speed, reliable data transmission.



Reliable Connectivity
Advanced VPN and industrial firewall ensure secure, private, and stable network connectivity.

APPLICATION TOPOLOGY



TR-400 Series

Remote Management & Cloud Integration

- Device Status Monitoring**
Real-time monitoring of device status, network connections and performance.
- Remote Web Access**
Access devices remotely via web interface from anywhere, any time.
- Package Management**
Manage packages remotely, including installation, update and removal.
- Online Firmware Upgrade**
Upgrade firmware online to keep devices secure and up to date.
- TLS-Secured Connections**
All remote connections are protected by TLS encryption for maximum security.



Cloud Remote
Management



Easy
Configuration



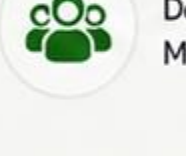
Efficient
Maintenance



Rich
Services



Secure
Transmission



Device Group
Management

TR-400 Series Protocol Support

Comprehensive Services for Industrial Networking and System Integration

- Northbound Integration Services**
 - MQTT
 - TCP
 - UDP
 - HTTP
 - OPC UA Client
 - OPC UA Server
 - Fieldbus Gateway Services**
 - Modbus RTU/TCP Master + Slave
 - BACnet IP / MS/TP
 - VPN & Security Services**
 - OpenVPN
 - WireGuard
 - IPsec
 - PPTP
 - nftables Firewall
- Rich Service Stack
 - Flexible Integration
 - Reliable Communication
 - Remote Connectivity



Technical Specifications

Interface	1000M (2 LAN+1WAN)	1000M (4 LAN+1WAN)	1000M (2 LAN+1WAN)	1000M (4 LAN+1WAN)
Wireless	4G	4G	5G	5G
Category	Parameter		Specification	
 Basic Information	Processor		Dual-core ARM Cortex-A53 @ 1.3GHz	
	Memory		512MB	
	Storage		256MB Flash	
	Dimensions		150 × 115 × 35 mm	
 Wireless	WiFi		WiFi 6 AX3000: 2.4GHz 574Mbps + 5GHz 2402Mbps	
 Interfaces	Serial Ports		2 × RS485 + 1 × RS232	
	USB		USB 3.0 + USB 2.0	
	Expansion Slot		1 × Mini PCIe	
 Services & Software	Power		DC 12V / 2A	
	Operating System		TesproOS 1.0.0	
	Firewall		nftables (firewall4)	
	VPN		OpenVPN / WireGuard / IPsec / PPTP	
	Modbus		RTU/TCP Master + Slave, supports 64 devices and 128 data points	
	BACnet		IP/MS/TP data collection, 64 devices and 128 data points	
	Northbound Protocols		MQTT / TCP / UDP / HTTP / OPC UA Client / OPC UA Server	
	Energy Management		12 sub-function modules	
 Environment	Operating Temperature		-40°C ~ 75°C	