



TELTONIKA TRB501 INDUSTRIAL 5G GATEWAY, ESIM



link to the product:

<https://www.batna24.com/gb/p/lte-5g/teltonika-trb501-industrial-5g-gateway-esim>

Price: **1,710.71 zł** gross / 1,390.82 zł net



Manufacturer: TELTONIKA

Referention number: DNXXGKMMMMRMNGQ

Information:

Teltonika TRB501 is an industrial 5G gateway designed for demanding IIoT, automation, SCADA and Smart Grid applications. It offers ultra-fast transmission thanks to 5G with band aggregation and a 2.5 Gbps Ethernet port, eliminating bottlenecks in communication. It natively supports Modbus TCP/RTU, DNP3 and DLMS, making integration with industrial infrastructure easier. The RutOS system provides advanced security, including VPN, firewall, DDoS protection, VLAN and transfer control. The compact aluminium IP30 enclosure operates in temperatures from -40°C to 75°C, and compatibility with Teltonika RMS enables remote management, diagnostics and updates.

Full product description

Teltonika TRB501 Gateway - A New Era of Industrial 5G Connectivity

Teltonika TRB501 is an advanced industrial network gateway that opens the door to next-generation 5G technology. The device has been designed with the most demanding environments in mind, offering lightning-fast data transmission while maintaining minimal latency. Thanks to support for the 3GPP Release 16 standard and 5G band aggregation, the gateway ensures optimal use of the radio spectrum. It is an ideal solution for modern automation, security systems and advanced IIoT installations, where connection reliability is a priority.



Ultra-fast 2.5 Gbps Ethernet port and uncompromising performance

A key design element of the TRB501 gateway is its Ethernet interface with throughput of up to 2.5 Gbps. Such high wired speed allows the full potential of the 5G network to be utilised, eliminating so-called “bottlenecks” in data transmission. Despite its powerful performance, the device retains an extremely compact size (100 x 30 x 93.4 mm), which allows it to be installed in places with limited space, such as control cabinets or ATMs, without having to give up top network performance.



Ready for IIoT protocols: Modbus, DNP3 and DLMS

Teltonika TRB501 is a device fully prepared for operation in industrial environments. The gateway natively supports key communication protocols such as Modbus (TCP/RTU), DNP3 and DLMS. As a result, it becomes an integral part of SCADA supervision systems, smart grids and advanced telemetry systems. The ability to easily integrate with existing industrial infrastructure makes the TRB501 a versatile tool for the digital transformation of enterprises.



Advanced security and stable RutOS system

Data security in the TRB501 gateway is guaranteed by the proprietary RutOS operating system (based on Linux OpenWrt). The user gains access to a wide range of tools, including numerous VPN standards (OpenVPN, IPsec, WireGuard, ZeroTier), an advanced firewall and protection against DDOS attacks and port scanning. In addition, the gateway offers network separation through VLAN and control of mobile data limits, allowing full management of security and transmission costs within the company infrastructure.

Durability and professional management with Teltonika RMS

The device is housed in a robust anodised aluminium enclosure with an IP30 protection rating, allowing trouble-free operation in extreme temperatures from -40°C to 75°C. The TRB501 is fully compatible with the Teltonika RMS (Remote Management System) remote management system. It enables remote access to the device, mass software updates and full diagnostics without the need to be physically present at the installation site, significantly reducing network maintenance costs.

Technical data

Parameter	Value
Mobile module	5G Sub-6Ghz SA/NSA (3.4 Gbps DL), 4G LTE Cat 19, 3G
3GPP standard	Release 16
Ethernet	1 x RJ45 port, 10/100/1000/2500 Mbps
Processor	Qualcomm, 1.5 GHz, ARM Cortex-A7

Parameter	Value
Memory	512 MB RAM, 512 MB Flash
Power supply	9 - 30 VDC (4-pin connector or passive PoE)
I/O interfaces	2 x configurable digital inputs/outputs
Enclosure	Anodised aluminium, IP30 class
Operating temperature	-40 °C to 75 °C

Key advantages

- **Next-generation 5G technology:** Band aggregation and low latency ensure smooth operation even in the most demanding automation processes.
- **2.5 Gbps port:** Full 5G throughput without losses on the wired connection.
- **Industrial standards:** Native support for Modbus TCP, DNP3 and DLMS protocols.
- **Enterprise-grade security:** Extensive support for VPN, Firewall and advanced content filtering.
- **Remote management:** Full integration with the Teltonika RMS platform for remote diagnostics and configuration.

The product is intended for

- **SCADA and Smart Grid operators:** Looking for a reliable connection for monitoring critical infrastructure.
- **IIoT solution providers:** Needing a compact yet extremely powerful data transmission device.
- **The banking and retail sector:** Requiring a secure 5G connection for ATMs and modern POS systems.
- **Engineer**