Item no.: 384761

TRB246 - Industrial 4G LTE gateway, DUAL SIM

from **129,34 EUR**

Item no.: 384761
shipping weight: 0.20 kg
Manufacturer: Teltonika

📇 Product Description

The TRB246 is an industrial 4G LTE gateway with I/Os, RS232, RS485 and Ethernet interfaces for IoT solutions that require versatility and reliable M2M communication support. The gateway has dual SIM functionality and supports various protocols such as DNP3, DLMS and Modbus, which are essential for smooth data transmission. This industrial-grade IoT gateway is housed in an aluminium casing and can withstand extreme environmental conditions in manufacturing, agriculture or construction.SpecificationMOBILE-mobile module: 4G (LTE) - LTE Cat 4 150 Mbps DL, 50Mbps UL; 3G - 42 Mbps DL, 5.76 Mbps UL; 2G - 296 Kbps DL, 236.8 Kbps UL- SIM switch: 2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, in roaming, no network, network denied, data connection failed- Status: IMSI, ICCID, operator, operator status, data connection status, network type, bandwidth, connected band, signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, data sent/received, LAC, TAC, cell ID, ARFCN, UARFCN, EARFCN, MCC and MNC- SMS: SMS status, SMS configuration, send/read SMS via HTTP POST/GET, EMAIL to SMS, SMS to EMAIL, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, SMPP- USSD:Supports sending and reading of Unstructured Supplementary Service Data messages- Black/White List: black/white list of operators (by country or individual operators)- Multiple PDN: possibility to use different PDNs for multiple network accesses and services- Band management: Band lock, display of the status of the band in use- SIM idle protection service: for devices with two SIM slots, the slot not currently in use remains idle until the device switches to it, so that no data on the card is used until then- APN: Auto APN- Bridge: Direct connection (bridge) between mobile ISP and device in the LAN- Passthrough: Gateway assigns its mobile WAN IP address to another device in the LANETHERNET- Ethernet: 1 x ETH port, 10/100 Mbit/s, complies with IEEE 802.3, IEEE 802.3u, 802.3az, supports Auto-MDI/MDIX crossoverNETWORK- Routing: Static routing, dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP), policy-based routing- Network protocols: TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake On Lan (WOL)- VoIP passthrough support: H.323- and SIP-alg protocol NAT helpers that enable correct forwarding of VoIP packets- Connection monitoring: Ping reboot, Wget reboot, periodic reboot, LCP and ICMP for link inspection- Firewall: Port forwarding, traffic rules, user-defined rules- Firewall status page: Display all firewall statistics, rules and rule counters- Ports management: display device ports, enable and disable individual ports, enable or disable automatic configuration, change transfer speed, etc.- Network topology: Visual representation of your network showing which devices are connected to which other devices- Hotspot: Captive portal (hotspot), internal/external radius server, SMS authorisation, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group restrictions, user management, 9 default customisable themes and the ability to upload and download custom hotspot themes- DHCP: Static and dynamic IP assignment, DHCP Relay- QoS / Smart Queue Management (SQM): traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e- DDNS: Supports >25 service providers, others can be configured manually- Network backup: Mobile, VRRP, wired options, each of which can be used as automatic failover- SSHFS: Ability to mount remote file systems via the SSH protocolSECURITY- Authentication: Pre-shared key, digital certificates, X.509-certificates, TACACS+, Radius, block IP & login attempts- Firewall: Pre-configured firewall rules can be activated via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T- Attack protection: DDOS protection (SYN flood protection, SSH attack protection, HTTP/HTTPS attack protection), port scan protection (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks)- VLAN: Tag-based VLAN separation- Mobile quota control: Mobile data limit, customisable time period, start time, warning limit, phone number- WEB filter: blacklist to block unwanted websites, whitelist to specify only allowed websites- Access control: flexible access control of SSH, web interface, CLI and TelnetVPN: OpenVPN: multiple clients and one server can run simultaneously, 27 encryption methods- OpenVPN encryption: DES-CBC 64, RC2-CBC 128, DES-EDE-CBC 128, DES-EDE3-CBC 192, DESX-CBC 192, BF-CBC 128, RC2-40-CBC 40, CAST5-CBC 128, RC2-64-CBC 64, AES-128-CBC 128, AES-128-CFB 128, AES-128-CFB1 128, AES-128-CFB8 128, AES-128-OFB 128, AES-128-GCM 128, AES-192-CFB 192, AES-192-CFB1 192, AES-192-CFB8 192, AES-192-OFB 192, AES-192-CBC 192, AES-192-GCM 192, AES-256-GCM 256, AES-256-CFB 256, AES-256-CFB1 256, AES-256-CFB8 256, AES-256-OFB 256, AES-256-CBC 256- IPsec: IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, AES192GCM12, AES256GCM12, AES128GCM16, AES192GCM16, AES256GCM16)- GRE: GRE tunnels, GRE tunnels via IPsec support- PPTP, L2TP: Client/server instances can run simultaneously, L2TPv3, L2TP via IPsec support- Stunnel: Proxy for adding TLS encryption functionality to existing clients and servers without changes to the programme code- DMVPN: Method for building scalable IPsec VPNs- SSTP: Support for SSTP client instances- ZeroTier: ZeroTier VPN client support- WireGuard: WireGuard VPN client and server support- Tinc: Tinc provides encryption, authentication and compression in its tunnels. Client and server support.BACNET- Supported modes: Router- Supported connection types: RS485, TCPOPC UA- Supported modes: Client, Server- Supported connection types: TCPMODBUS- Supported modes: Server, Client- Supported connection types: RTU (RS232, RS485), TCP- User-defined registers: MODBUS TCP user-defined register block requests that can read/write a file within the router and be used to extend MODBUS TCP client functionality- Supported data formats: 8-bit: INT, UINT; 16-bit: INT, UINT (MSB or LSB first); 32-bit: float, INT, UINT (ABCD (big-endian), DCBA (little-endian), CDAB, BADC), HEX, ASCIIDATATO SERVER- Protocol: HTTP(S), MQTT, Azure MQTT, Kinesis- Data to server: Extracts parameters from multiple sources and different protocols and sends them all to a single serverMODBUS MQTT GATEWAY- Modbus MQTT Gateway: Enables commands to be sent and data to be received from the MODBUS server via the MQTT brokerDNP3- Supported modes: station, outstation- Supported connection types: RS232, RS485, TCPDLMS- DLMS support: DLMS - Standard protocol for exchanging meter data. Serial and TCPAPI support- Teltonika Networks Web API (beta) support: Extend the capabilities of your device by using a range of configurable API endpoints to retrieve or modify data. For more information, please read this documentation: https://developers.teltonika-networks.comMONITORING & MANAGEMENT- WEB UI: HTTP/HTTPS, status, configuration, FW update, CLI, troubleshooting, event log, system log, kernel log- FOTA: Firmware update from server, automatic notification- SSH: SSH (v1, v2)- SMS: SMS status, SMS configuration, send/read SMS via HTTP POST/GET- Call: Restart, status, mobile data on/off, outgoing on/off, answer/hang up with timer- TR-069: OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem- MQTT: MQTT Broker, MQTT publisher- SNMP: SNMP (v1, v2, v3), SNMP Trap- JSON-RPC: Management API via HTTP/HTTPS- RMS: Teltonika Remote Management System (RMS)IOT PLATFORMS- Cloud of Things: Enables monitoring of: Device data, mobile data, network information, availability- ThingWorx: Enables monitoring of: WAN type, WAN IP, mobile provider name, mobile network signal strength, mobile network type- Cumulocity: Enables monitoring of: Device model, revision and serial number, WAN type and IP, mobile cell ID, ICCID, IMEI, connection type, network provider, signal strength- Azure IoT Hub: Can provide device IP, number of bytes sent/received, temperature, PIN count to Azure IoTHub server, mobile connection status, network connection status, IMEI, ICCID, model, manufacturer, Serial number, revision, IMSI, SIM status, PIN status, GSM signal, WCDMA RSCP, WCDMA EC/IO, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, operator, operator number, connection typeSYSTEM CHARACTERISTICS- CPU: Mediatek, 580 MHz, MIPS 24KEc- RAM: 128 MB- FLASH memory: 16 MBFIRMWARE/ CONFIGURATION- WEB-UI: Update FW from file, check FW on server, configuration profiles, configuration backup- FOTA: Update FW- RMS: Update FW/configuration for multiple devices at once- Maintain settings: FW update without losing the current configurationFIRMWARECUSTOMISATION- Operating system: RutOS (OpenWrt based Linux OS)- Supported languages: Busybox shell, Lua, C, C++- Development tools: SDK package with build environment provided- GPL customisation: you can create your own custom, branded firmware and website application by changing colours, logos and other elements in our firmware to suit your needs or those of your customers.LOCATIONTRACKING- GNSS: GPS, GLONASS, BeiDou, Galileo and QZSS- Coordinates: GNSS coordinates via WebUI, SMS, TAVL, RMS- NMEA: NMEA 0183- NTRIP: NTRIP protocol (Networked Transport of RTCM via Internet Protocol)- Server software: Supported server software TAVL, RMS- Geofencing: Configurable multiple geofence zonesSERIAL- RS232: Terminal block connection: TX, RX, RTS, CTS- RS485: Terminal block connection: D+, D-, R+, R- (2- or 4-wire interface)- Serial functions: Console, serial via IP, modem, MODBUS gateway, NTRIP clientINPUT / OUTPUT- Input: 3 x digital input, 0 - 6 V are recognised as logic low, 8 - 30 V are recognised as logic high- Output: 3 x digital output, open collector output, max. output 30 V, 300 mA- Events: Email, RMS, SMS- I/O juggler: Allows specific I/O conditions to be set to trigger an eventPOWER- Connection: 2-pin in 16-pin industrial terminal strip- Input voltage range: 9 - 30 VDC, reverse polarity protection, overvoltage protection +/-1 kV 50 µs max- Power consumption: Idle: < 1.5 W, Max: < 3.5 W PHYSICAL INTERFACES- Ethernet: 1 x RJ45 port, 10/100 Mbps- I/Os: 3 x configurable digital I/Os in 16-pin terminal block- Status LEDs: 3 x connection status LEDs, 3 x connection strength LEDs, 1 x power LED, 1 x eth port status LED- SIM: 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, double-stacked SIM slot- Power supply: 1 x 16-pin terminal strip- Antennas: 1 x SMA connector for LTE, 1 x SMA connector for GNSS- RS232: 4-pin in 16-pin terminal strip (TX, RX, RTS, CTS)- RS485: 4-pin in 16-pin terminal strip (D+, D-, R+, R-)- Reset: Reboot/User default reset/Factory reset buttonPHYSICAL DATA- Housing material: Aluminium housing- Dimensions (W x H x D): 83 x 25 x 74.2 mm- Weight: 165 g- Mounting options: DIN rail, flat mounting surfaceOPERATING ENVIRONMENT- Operating temperature: -40 °C to 75 °C- Operating humidity: 10 % to 90 % non-condensing- Protection class: IP30REGULATORY & TYPE APPROVALS- Regulations: CE, UKCA, RCM, CB, EAC, UCRF, WEEE

📄 Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability