



M2M ROUTER PRO4

Advanced wireless router with LTE communication

Industrial router designed to work in the power communication infrastructure, provided with two Fast Ethernet ports and an RS485 serial interface.

The operating system is based on the open source, Linux-based OpenWrt® system, by allowing virtual adaptation of the router software to the customer requirements, installing your own scripts on your device.

The internal power supply allows the device to be supplied directly from the 230V AC mains.

The device assures the mount to a DIN-rail as well as the fixation by the screws. All interfaces are protected by the terminal cover, which is adapted for sealing.

Wireless communication

- WWAN: 2G/3G/4G, LTE (Telit® modules)

External connectivity

- 2pcs Ethernet LAN interface (1 Gbps)
- 1pc serial RS485 port: self-detection of the IEC EN 62056-21 / DLMS protocol. Data speed control (300-19200 bps).

Software/Configuration

- Using the OpenWrt® operating system, extended with configurable user roles, advanced statistics module
- Remote and secure exchange of firmware

Safety

- Diagnostic and monitoring the parameters of the operation by the user interface
- Diagnosis and monitoring the parameters of the
- Secure IEEE 802.1x encryption
- Support for TR-069
- Super-capacitor protection against the sudden power supply voltages



Application

- ▶ Wireless data transmission
- ▶ Conductive backup communication
- ▶ M2M communication with SCADA systems
- ▶ Remote meter reading

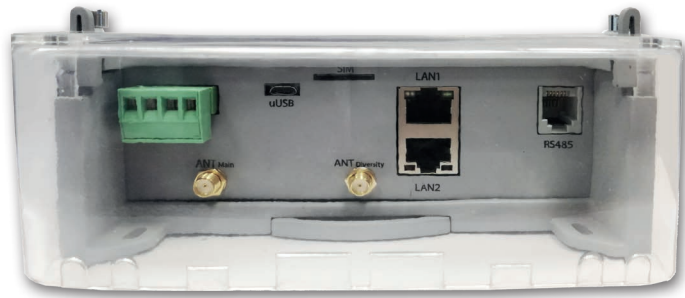


M2M Router PRO4®



Housing

Made of industrial plastic, mounted on a DIN-rail, assured IP51 protection

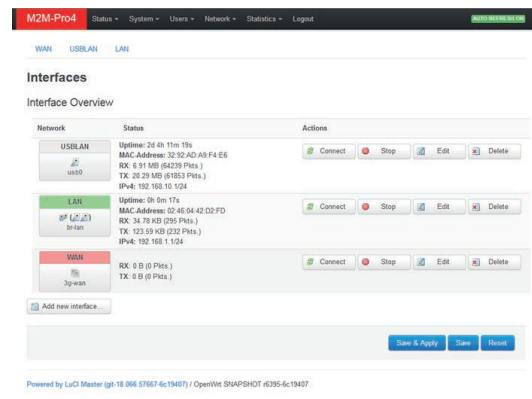


OpenWrt® operating system

- Stable TCP / IP connection
- Supported protocols: TCP / IP, DHCP, NAT, SSH, FTP, NTP, Firewall, IEEE 802.1x, NTP time synchronization
- Possibility to expand the system with own scripts and apps
- TR-069 support (remote management protocol)

Accessories

Supplied with necessary accessories (as cabling and antennas).



Technical data

Description		M2M Router PRO4®
Power Voltage		AC power supply from 230 V AC, 50Hz
Power Consumption		Max. 10W (when establishing LTE connection) / Average: 4W
Basic Wireless Communication	Interface type	Assembled on the device's motherboard
	Standards	GSM/GPRS/UMTS/HSPA+, LTE
	Modem Type	Telit LE910-EU V2
	Frequency (MHz)	GSM/GPRS: B3(1800), B8(900) UMTS: B1(2100), B8(900) LTE: B3(1800), B7(2600), B20(800), B1(2100), B8(900)
	Speed (DL/UL)	LTE Cat.3: 100/50 Mbps HSPA+ Cat.20/Cat.6: 42/5.7 Mbps 3G: 384/384 kbps 2G: 236/236 kbps
	Antenna	2pcs 4G LTE antenna (SMA, 50 Ohm, main and diversity)
Interfaces	SIM Card	2FF type mini SIM card slot, internal protection against spontaneous falling out. Placed under the sealed cover.
	LAN/WAN	2pcs Ethernet (1 Gbps, RJ45, full duplex), under the sealed cover
	RS232/RS485	Serial RS-485 port: data interface (RJ12)
Security	Protection	Sealed terminal cover of the device
	Supercapacitor	Against power outages (protection up to 5 mins)
User interface	Local Configuration	- WebGUI (LuCi) interface - Available via USB (main configuration interface) and 2xLAN (additional configuration interface) - OpenWrt® operating system (remote and local configuration, firmware replacement) - Support: TCP / IP IPv4, DHCP, NAT, SSH, FTP, NTP, Firewall, IEEE802.1x
	Remote Configuration	- WebGUI interface (LuCi) - OpenWrt® operating system (remote and local configuration, firmware replacement) - Support: TCP / IP IPv4, DHCP, NAT, SSH, FTP, NTP, Firewall, IEEE802.1x - SSHv2 (remote configuration software replacement, monitoring) - TR-069 Remote management protocol
	Indication	16 status LEDs
General specification	Operation / Storage Temperature	from -40°C to +75°C at 0 to 95 rel. humidity, non condensing / from -40°C to +80°C at 0 to 95 rel. humidity, non condensing
	Housing	Protection class IP51, housing made of plastic, DIN-rail mounting supported
	Dimensions / Weight	150 x 150 x 68 mm / 480 gr



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