

# M2M ROUTER PRO4

Advanced router with 4 Ethernet ports and LTE communication

Industrial router, provided with four Fast Ethernet ports and an RS485 serial interface. The router has Dual SIM card option (when using with a secondary Internet module), or GPS/WiFi module (miniPCle connector).

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 100-230 VAC or the 9-30 VDC 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: 4G LTE (Telit® module)
- Dual SIM - secondary GPS/WiFi/Internet module

## External connectivity

- 4pcs Ethernet LAN interface (1 Gbps)
- 1pc serial RS485 port: self-detection of the IEC EN 62056-21 / DLMS protocol. data speed control
- 1pc uSD card for data storage
- 1pc uUSB connector for configuration

## Software/Configuration

- OpenWrt® operating system, web configuration
- 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

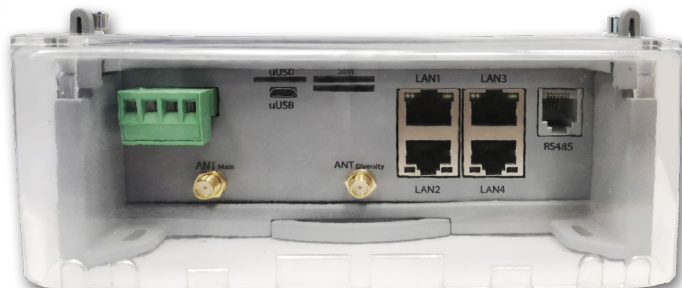


# M2M Router PRO4<sup>®</sup>



## Housing

Made of industrial plastic, mounted on a DIN-rail, assured IP51 protection (optional aluminum case).

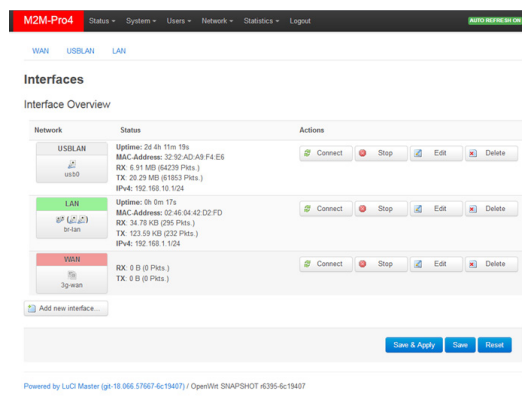


## Accessories

Supplied with necessary accessories (as cabling and antennas).

## OpenWrt<sup>®</sup> operating system

- Stable TCP / IP connection
- Supported protocols: TCP/IP IPv4 or IPv6, 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)



## Technical data

Description		M2M Router PRO 4 <sup>®</sup>
Power Voltage		AC power supply from 100-230V AC, 50Hz / 9-30 V DC mains
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)
Secondary Wireless module	Optional	miniPCI express connector for GPS module / 2nd wireless internet module / WiFi module
Interfaces	SIM Card	2pcs 2FF type mini SIM card slot, internal protection against spontaneous falling out. Placed under the sealed cover.
	LAN/WAN	4pcs Ethernet (1 Gbps, RJ45, full duplex), under the sealed cover
	RS232/RS485	Serial RS-485 port: data interface (RJ12)
	uSD card	uSD card slot for data storage / boot
Security	uUSB slot	USB connection for configuring the router
	Protection	Sealed terminal cover of the device, IP51 protection
User interface	Supercapacitor	Against power outages (protection up to 5 mins)
	Local Configuration	- WebGUI (LuCi) interface - Available via USB (main configuration interface) and 2xLAN (additional configuration interface) - OpenWrt <sup>®</sup> 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 <sup>®</sup> 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	Plastic IP51 protected housing, DIN-rail mounting supported Optional IP51 protected robust aluminum case
	Dimensions / Weight	150 x 150 x 68 mm / 510 gr



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