



# M2M ROUTER PRO4<sup>®</sup>

Advanced router with 2 Ethernet ports and LTE communication

Industrial router, provided with two Fast Ethernet ports.

The internal power supply allows the device to be supplied directly from the 24V DC 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.

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

## Wireless communication

- WWAN: 4G LTE (Telit<sup>®</sup> module)
- Auto configuration system: It can download the configuration from remote server after cold restart
- PIN code change feature

## External connectivity

- 2pcs Ethernet LAN interface (1 Gbps)
- RS485 port: self-detection of IEC EN 62056-21/DLMS protocol with data speed control
- uSD card for data storage
- uUSB connector for configuration

## Software/Configuration

- OpenWrt<sup>®</sup> 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
- Super-capacitor protection against outages



## Application

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

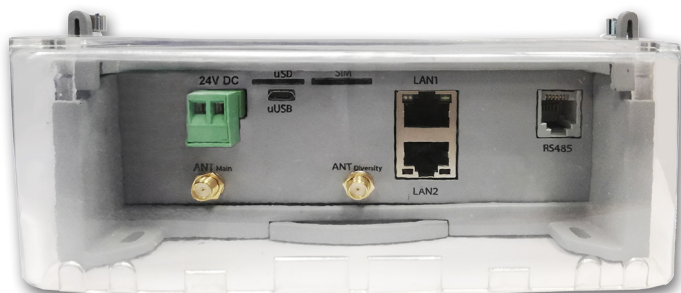


# M2M Router PRO4®



## Housing

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



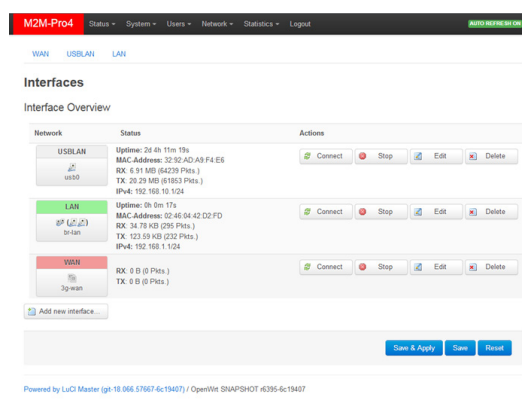
## Accessories

Supplied with necessary accessories (as cabling and antennas).

## Technical data

## OpenWrt® operating system

- Stable TCP / IP connection
- Supported protocols: TCP/IP IPv4 or IPv6, DHCP, NAT, SSH, GRE, FTP, TFTP, SFTP, NTP, Firewall, IEEE 802.1x, NTP time server, OSPF support, OpenNHRP, SNMP v2, SNMP TRAP
- Restart/shut down with incoming voice call
- autoconfiguration system: it can download configuration from remote server after cold restart
- Possibility to expand the system with own scripts and apps



Description		M2M Router PRO 4®
Power Voltage		24V 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)
Interfaces	SIM Card	- 2FF type mini SIM card slot, internal protection against spontaneous falling out. Placed under sealed cover. - Auto configuration system: It can download configuration from remote server after cold restart - PIN code change feature
	LAN/WAN	2pcs Ethernet (1 Gbps, RJ45, full duplex), under the sealed cover
	RS485	RS-485 port: data interface (RJ12, self-detection of IEC EN 62056-21/ DLMS protocol with data speed control )
	uSD card	uSD card slot for data storage / boot
	uUSB slot	USB connection for configuring the router
Security	Protection	Sealed terminal cover of the device, IP51 protection
	Super-capacitor	Against power voltage outages (protection up to 5 mins)
User interface	Configuration	- Available via USB (main configuration interface) and 2xLAN (additional configuration interface) - WebGUI (LuCi) interface / OpenWrt® operating system (local/remote configuration, firmware replacement) - Support: TCP / IP IPv4 or IPv6, DHCP, NAT, SSH, GRE, TFTP, SFTP, FTP, NTP, Firewall, IEEE802.1x, OSPF, OpenNHRP support, SNMP v2, SNMP TRAP support - Restart/shut down with incoming voice call
	Remote Configuration	- WebGUI interface (LuCi) / OpenWrt® operating system (configuration, firmware replacement) - SSHv2 (remote configuration software replacement, monitoring)
	Indication	16 status LEDs
	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
General specification	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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