



M2M ROUTER® PRODUCT FAMILY

Professional, wireless CDMA 450, 2G, 3G, 4G LTE and LTE 450 MHz routers

DIN-rail mountable, universal router product family with wireless data forwarding capabilities, Ethernet port and industrial design.

The device uses the open source OpenWRT® operation system and provides web admin interface.

Communication

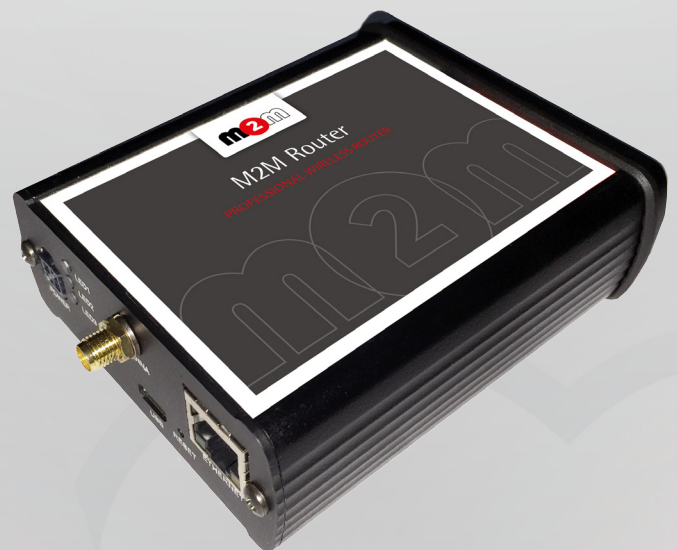
- Supporting the CDMA 450, 2G, 3G, 4G LTE Cat.3 and LTE 450 Cat.1 (Telit® modules)
- Ethernet LAN/WAN

Software/Configuration

- Easy to use open source OpenWRT® software with webadmin interface
- Opportunity for the developers to implement and use self-developed system or applications
- Firmware & software updates and parametrizing remotely by the M2M Device Manager® software

Security

- System monitoring, auto restart mode
- High availability and stable IP connection
- Protection from network attack, traffic monitoring helps to reduce data usage



Application

- ▶ Wireless data transmission, routing
- ▶ Secondary/backup route
- ▶ Industrial M2M and measurement, data collecting devices, PLCs (to a Scada)
- ▶ Remote access and monitoring
- ▶ Utility smart meters (remote readout)
- ▶ Safety camera, DVR



M2M Router® Product Family

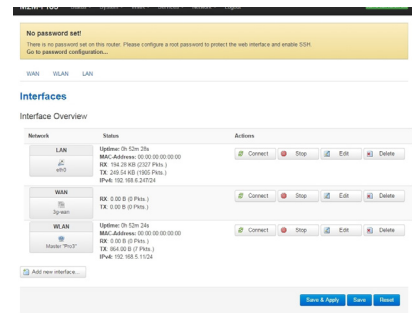


Industrial design

Industrial metal case, fit to DIN-rail.



OpenWRT® system



Communication

The routers are supporting the CDMA 450, 2G, 3G UMTS, 4G LTE and 4G LTE 450MHz mobile network standards and the static IP addresses. Transparent data route, supporting TCP/IP.

Antenna

The routers are supplied with external antennas.

Advanced services

- Stable IP connection with auto recovery
- Network services: DHCP, DNS, IP route, DynDNS, NAT, VPN/Tunnel, IPv4/IPv6, FTP services, SNTP time handlink, NTP time service, GRE, mGRE, IP passthrough
- Technical support and expert consultancy
- Downloading firmware/software updates, parametrizing (remotely by M2M Device Manager software®)

Technical data

M2M Router® Product Family		M2M Router CDMA®	M2M Router 2G®	M2M Router 3G®	M2M Router 4G®	M2M Router LTE 450MHz®
Power Voltage		12V 1A power supply (6-30VDC)				
Nominal Frequency		50-60Hz +/- 5%				
Current		Stand-by: 40..70mA, 12VDC, Average: 200mA, 12VDC				
Power Consumption		2.4W, 12VDC				
Communication Module	Mobile Standards	CDMA 450	GSM/GPRS	GSM/GPRS/EDGE, UMTS/HSPA+	GSM/UMTS/HSPA+, LTE	LTE (450/800/1800)
	Modem type	Telit CE910-SL	Telit GE910-QUAD	Telit HE910-GL	Telit LE910-EUG, Telit LE910-NAG	Telit LE910D1-E1
	Frequency (MHz)	CDMA: 450	GSM/GPRS: 850/900/1800/1900	GSM/GPRS/EDGE: 850/900/1800/1900 UMTS/HSPA: 800/850/900/ AWS1700/1900/2100	GSM/GPRS: 900/1800 (NAG: 850/1900) UMTS: 850/900/2100 (NAG: 850/1900) LTE: 800(B20)/1800(B3)/2600(B7) (NAG: 700(B17)/850(B5)/ AWS1700(B4)/1900(B2))	LTE: 1800(B3)/800(B20)/450(B31)
	Speed (DL/UL)	CDMA: 153/153 kbps	GPRS: 80/40 kbps	HSPA Cat.8/Cat.6: 7.2/5.7 Mbps 3G: 384/384 kbps 2G: 236/236 kbps	LTE Cat.3: 100/50 Mbps HSPA+ Cat.20/Cat.6: 42/5.7 Mbps (NAG: 21/5.7 Mbps) 3G: 384/384 kbps 2G: 236/236 kbps	LTE Cat.1: 10/5 Mbps
	SIM card	mini SIM card				
Antenna		1x CDMA (SMA, 50 Ohm)	1x 2G (SMA, 50 Ohm)	1x 3G (SMA, 50 Ohm)	2x 4G (SMA, 50 Ohm)	1x LTE 450 (SMA, 50 Ohm)
Optional expansions	Module					
Interfaces	Connection	- RJ45 (10/100 Mbps Ethernet LAN/WAN) - micro USB slot - micro SD memory card slot (except CDMA version)				
	Configuration	- OpenWRT® local website (local/remote configuration) - M2M Device Manager (firmware/software refres, parameter modification)				
User interface	Indication	3 bi-color status LED (programmable)				
	Operating	-40°C to +75°C				
	Storage	-40°C to +80°C				
Temperature, conditions	Humidity	0 to 95 rel humidity, non condensing				
	Housing	Industrial aluminum case, mount to DIN-rail/wall				
Construction	Protection	IP51				
	Dimension	110 x 85 x 35 mm				
	Weight	185-200gr (depending on module version)				



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