



M2M ROUTER® PRODUCT FAMILY

Simple and trustful CDMA 450, 2G, 3G, 4G LTE Cat.3, LTE 450, NB routers with Ethernet and RS485 connection

DIN-rail mountable, universal mobile router - with Ethernet and RS485 port. The router has IP51 protected, robust aluminum housing. It can be fixed to a DIN-rail or C-rail (by optional accessory).

Utilizes the open source, Linux-based OpenWrt® system, which can be easily configurable on the router web user interface.

We offer to manage the router by M2M Device Manager® application, which provides continuous central management, QoS monitoring, mass configuration and firmware updates by remotely.

Communication

- Supporting the CDMA 450, 2G, 3G, 4G, LTE 450, Narrow Band networks (Telit® modules)
- Ethernet LAN/WAN interface
- RS485 port

Software/Configuration

- Modbus TCP/IP Gateway: the Modbus devices are connecting on Ethernet port, wireless TCP/IP data is transmitted to a Scada or monitoring system
- Modbus communication (RS485)
- Easy to use, open source OpenWrt® system with web user interface
- Remote firmware and software updates, device configuration (by Remote Device Manager®)
- Opportunity for the developers to implement and use self-developed system or applications

Security

- System monitoring, automatic recovery
- Safety & networking services
- TR-069 support



Application

- ▶ Wireless data transmission
- ▶ Secondary / backup route
- ▶ Industrial M2M and measurement
- ▶ Data collecting, 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 or into a rack.

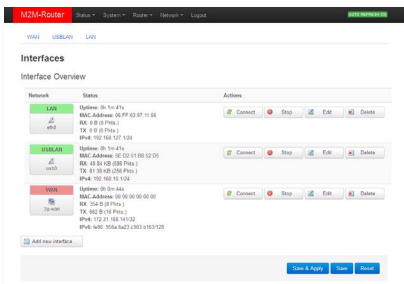


Remote Device Manager[®]



Communication

The routers are supporting CDMA 450, 2G, 3G, LTE 4G, LTE 450, Narrow Band mobile networks, static IP address, transparent data route, TCP/IP.



OpenWrt[®] system with webadmin interface

- Stable IP connection with auto recovery
- Network services: DHCP, DynDNS, IP route, DynDNS, NAT, VPN/Tunnel, IPv4/IPv6, FTP, SNTP time handlink, NTP time service, SSH, GRE, mGRE, IP passthrough, OpenVPN
- Security: IPSec, Firewall, TR-069
- Technical support and expert consultancy
- Downloading firmware/software updates, parametrizing (remotely by Remote Device Manager software[®])

Accessories

Supplied with power supply adapter, antenna.

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	no 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)	
Interfaces	Connection	- RJ45 (10/100 Mbps Ethernet LAN/WAN) - RS485 port (Modbus communication, terminal block) - micro USB slot - micro SD memory card slot (except CDMA version)				
	Configuration	- OpenWRT [®] local website (local/remote configuration) - M2M Device Manager (firmware/software refresh, parameter modification)				
User interface	Indication	3 bi-color status LED (programmable)				
	Temperature condition	Operating / Storage: -40°C to +75°C / -40°C to +80°C at 0 to 95 rel humidity, non condensing				
Construction	Housing / Protection	IP51 industrial aluminum case, mount to DIN-rail/wall				
	Dimensions / Weight	110 x 85 x 35 mm / 185-200g (depending on module version)				



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