



M2M ROUTER PRO[®] PRODUCT FAMILY

Versatile and professional 3G, 4G LTE Cat.3, LTE 450 MHz Cat.4 router family with WiFi, Dual-SIM option and further expansions

DIN rail mountable, versatile, wireless industrial router family with Ethernet port and several expansion possibilities.

The device uses the open source OpenWRT[®] operation system supporting the web administration.

The following expansion options can be chosen: DUAL SIM expander, WiFi module, RS232/RS485, Wireless MBus or IO-expansion.

Communication

- Supporting the 3G, 4G LTE, LTE 450 (Gemalto[®], Telit[®] Cat.3, NTLM[®] Cat.4 miniPCIe modules)
- Usage of Dual SIM cards (optional)
- Optional WiFi (for the connected devices)
- It can be extended with the listed modules
- Self-developed expansion modules to integrate
- 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
- Configurable by the local/remote web interface
- Firmware & software updates and parameterizing remotely by the M2M Device Manager[®] software

Security

- System monitoring, auto restart mode
- High availability
- Extended tests during the development
- Safety against network attack, traffic monitoring helps to reduce data usage



Application

- ▶ Wireless data transmission, routing
- ▶ Secondary/backup route
- ▶ Industrial M2M machines (to a Scada)
- ▶ Utility smart meters (remote readout)
- ▶ Safety camera, DVR



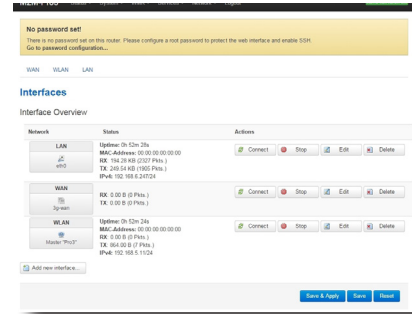
M2M Router PRO[®] Product Family



Industrial design
Industrial metal case, fit to DIN rail.



OpenWRT[®] system



Communication

The router supports 3G, 4G LTE and LTE 450 MHz mobile network standards, static IP addresses. Transparent data route, supported TCP/IP.

Antenna

The routers are supplied with external antennas.

Advanced services

- Stable IP connection with auto recovery
- Network services: DHCP, DNS, DynDNS, IP route, NAT, VPN/Tunnel, IPv4/IPv6, FTP, SNTP time handlink, NTP time service, for WiFi (optional): WPA/WPA2 encryption
- Technical support and expert consultancy
- Remote downloads of software updates, installing new applications.

Technical data

M2M Router PRO [®] Product Family		M2M Router PRO 3G [®]	M2M Router PRO 4G [®]	M2M Router PRO LTE 450 MHz [®]
Power Voltage			12V 2A (6-30VDC)	
Nominal Frequency			50-60Hz +/- 5%	
Communication Module	Mobile Standards	GSM/GPRS/EDGE/HSPA		LTE (LTE 450/800/1800/2600)
	Modern Type	Gemalto [®] EHS5-E Mini PCIe	Telit LE910-EUG Mini PCIe, Telit LE910 NAG Mini PCIe	
	Frequency (MHz)	GSM/GPRS/EDGE: 900/2100 (EHS5-US: 850/900) HSPA: 900/2100 (EHS5-US: 850/900)	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))	
	Speed (DL/UL)	HSPA Cat.8/Cat.6: 7.2/5.7 Mbps EDGE 237/237 kbps GPRS 85.6/85.6 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	
	SIM Card	mini SIM	DUAL SIM	
Antenna	1x 2G/3G (SMA, 50 Ohm)	2x 4G LTE (SMA, 50 Ohm)	2x LTE 450 (MIMO) (SMA, 50 Ohm)	
Optional expansion modules	DUAL SIM	1x mini SIM: 25x15mm, 1x micro SIM: 15x12mm (for the mini PCIe module) (in case of network/communication trouble switches automatically to the next mobile operator service/SIM card)		
	WiFi module	- 802.11 b/g/n 150 Mbps, WiFi Hotspot/Access Point/Client 2.4GHz, WPA/WPA2 encryption - WiFi antenna (SMA, 50 Ohm)		
	RS232/RS485	- RS232: serial port (D-Sub 9) - RS485: industrial data interface (4-pin terminal block)		
Interfaces	RF868 module	Wireless M-Bus (for wireless sensors and meters), RF868 MHz antenna (SMA, 50 Ohm)		
	Connection	- RJ45 (10/100 Mbps Ethernet LAN/WAN) - 2db USB slot - micro SD memory card slot		
User interface	Configuration	OpenWRT [®] local website (local/remote configuration) - M2M Device Manager (firmware/software refres, parameter modification)		
	Indication	3pcs, bi-color status LED		
Temperature, conditions	Operating	-40 C to +75 C		
	Storage	-40 C to +80 C		
Construction	Humidity	0 to 95 rel humidity, non condensing		
	Housing	Industrial aluminum case, mount to DIN-rail/wall		
	Protection	IP51		
	Dimension	95x45x130mm		
Weight	210-270gr (depending on module version)			



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