

INDUSTRIAL DIN RAIL ROUTER



This industrial LTE router is compact and small in size, making it suitable for various M2M and IoT applications such as smart metering and industrial automation. It can be mounted on a DIN-rail for easy installation.

The router is a cost-effective solution for connecting multiple industrial devices, energy meters, and sensors with a single router.



This device enables the remote reading of multiple industrial systems and transmits the data to a central server, including AMI (HES) or Smart Grid infrastructures.

Our cellular router has been specifically designed for industrial and metering environments. It can be mounted on a DIN-rail as an external router, connected to multiple devices simultaneously, such as industrial measurement

systems, utility meters, and sensors. The router features industry-standard interfaces and protocols, making it suitable for use in industrial automation and smart metering.

You can connect your devices to a central server by creating a transparent data link, allowing you to access them remotely. The router features several interfaces for connecting industrial devices, including Ethernet, RS232 and RS485 ports, and a DI (digital input) interface. It comes in a plastic IP31 housing that can be securely mounted to a 35mm DIN rail.

The device operates on the open-source, Linux-based OpenWRT® operating system and is compatible with our Device Manager® platform.



MAIN FEATURES

- Cellular modules (order options):
 - LTE Cat.1 / 2G or LTE Cat.1 / 3G / 2G
 - LTE Cat.M / Cat.NB (with 450MHz and 2G „fallback” options)
- Physical interfaces:
 - RJ45: Ethernet port (LAN, 10/100Mbps)
 - Terminal block: RS232 port, RS485 port, DI (digital input)
- DC power input
- Transparent data link
- OpenWrt® operation system
- Security, networking, and management protocols
- Configurable via OpenWrt web interface or Device Manager via TLS communication (order option)
- Remote firmware updates and configuration
- IP31 plastic modular casing, with 35mm DIN-rail fastening

APPLICATION

- INDUSTRIAL AUTOMATION
- INDUSTRIAL MEASUREMENT
- UTILITY COMPANIES
- SMART METERING
- SMART GRID



INDUSTRIAL DIN RAIL ROUTER



DESIGN AND OUTFIT

- IP31 plastic housing with 8 LEDs
- Ethernet port (RJ45, LAN, 10/100Mbps)
- RS232, RS485, and DI (digital input) terminal block connectors
- DC power input
- External antenna connector (SMA, 50 Ohm)



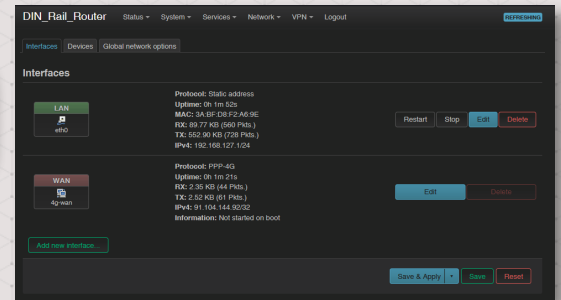
SOFTWARE SYSTEM

- Web user interface and Linux command line, UCI
- Security features include firewall, diagnostic monitoring of operational parameters, and remote control, including reboot and command execution via voice call
- Protocols: DHCP, DynDNS, IP route, NAT, IPv4 / IPv6, (S)FTP, (S)NTP, HTTP(S), IP passthrough, OpenSSH, OpenSSL, IPSec, OpenVPN, TLS



ACCESSORIES (ORDER OPTIONS)

- 12V DC power adapter
- External antenna (SMA, 50 Ohm)
- Device Manager® software for updates and configuration



INDUSTRIAL DIN RAIL ROUTER®		LTE Cat.1	LTE Cat.M / Cat.NB				
Power Voltage / Nominal Frequency		-12V DC, 1A power supply (9-32VDC)					
Power Consumption / Current		-Average: 200mA 12VDC (according to module version) / 2.4W, 12VDC					
System		-ARM Cortex®-A7 M1, 1.2GHz processor / 64MB DDR2 memory					
Communication module	Performance	-Quetcel EC95N-EU					
	Cellular technology	-LTE Cat.1 with 2G "fallback"	-LTE Cat.1 / 3G / 2G	-LTE Cat.M / Cat.NB	-LTE Cat.M / Cat.NB with 2G "fallback"	-LTE Cat.M / Cat.NB / 450MHz	
	Internet module	-Quetcel EC95N-EU	-Quetcel EC95-EX	-Quetcel BC95-M2	-Quetcel BC95-M3	-Quetcel BC95-M4	
	Bands / Frequency (MHz)	-LTE Cat.1: B1(2100) / B3(1800) / B5(850) / B7(2600) / B8(900) / B20(800)	-LTE Cat.1: B1(2100) / B3(1800) / B7(2600) / B8(900) / B20(800) / B28(700)	-LTE Cat.M: B1(2100) / B2(1900) / B3(1800) / B4(1700) / B5(850) / B8(900) / B12(700) / B13(700) / B18(850) / B19(850) / B20(800) / B25(1900) / B26(850) / B27(850) / B28(700) / B66(1700) / B65(700)	-LTE Cat.M: B1(2100) / B2(1900) / B3(1800) / B4(1700) / B5(850) / B8(900) / B12(700) / B13(700) / B18(850) / B19(850) / B20(800) / B25(1900) / B26(850) / B27(850) / B28(700) / B66(1700) / B65(700)	-LTE Cat.M: B1(2100) / B2(1900) / B3(1800) / B4(1700) / B5(850) / B8(900) / B12(700) / B13(700) / B18(850) / B19(850) / B20(800) / B25(1900) / B26(850) / B27(850) / B28(700) / B66(1700) / B65(700)	-LTE Cat.M: B1(2100) / B2(1900) / B3(1800) / B4(1700) / B5(850) / B8(900) / B12(700) / B13(700) / B18(850) / B19(850) / B20(800) / B25(1900) / B26(850) / B27(850) / B28(700) / B66(1700) / B65(700)
	Speed (DL/UL)	-LTE: 10/5 Mbps -EDGE: 236.8/236.8 kbps -2G: 85.6/85.6 kbps	-LTE: 10/5 Mbps -UMTS: 42/5.76 Mbps -WCDMA: Max. 384/384 kbps -EDGE: 236.8/236.8 kbps -GPRS: 107/85.6 kbps	-LTE Cat.M: 588/119 kbps -LTE Cat.NB2: 127/58.5 kbps -LTE Cat.NB1: 32/70 kbps	-LTE Cat.M: 588/119 kbps -LTE Cat.NB2: 127/58.5 kbps -LTE Cat.NB1: 32/70 kbps -GPRS: 107/85.6 kbps	-LTE Cat.M: 588/119 kbps -LTE Cat.NB2: 127/58.5 kbps -LTE Cat.NB1: 32/70 kbps	-LTE Cat.M: 588/119 kbps -LTE Cat.NB2: 127/58.5 kbps -LTE Cat.NB1: 32/70 kbps -GPRS: 107/85.6 kbps
SIM card slot	-mini SIM card (2FF type, push-insert SIM)						
Antenna connector	-External antenna connector (SMA, 50 Ohm)						
Interfaces	Connectors	-RJ45 (10/100 Mbps, Ethernet LAN) -RS232 port (2-pin terminal block connector, up to 9600/19200 bps) - RS485 (4-pin terminal block connector) -Digital input connector (for monitoring, sabotage detection; 2-pin terminal block connector) -DC power input (2-pin terminal block connector)					
	Switch	-Reset button					
	System / Services	-WebUI / Luci® interface, OpenWrt® operation system, Linux command line, UCI -Protocols: DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, Sntp time handling, NTP time service, HTTP(S), OpenSSH, OpenSSL, IP passthrough -Operation: Transparent communication					
Operation	Security features	-Security: Firewall, diagnostic, and monitoring of the operation parameters, remote control (reboot and command execution by a voice call), OpenVPN, IPSec, TLS v1.2 -Management: Device Manager connection - optional					
	Configuration	-OpenWRT® / Luci® web user interface (local/remote configuration) -Device Manager® software (firmware/software refresh, parameter modification, reboot) with TLS communication - order option					
Construction	Indication	-8pcs of bi-color status LEDs (configurable)					
	Temperature	-Operating: from -20°C to +70°C at 95% rel.humidity - Storage: from -40°C to +80°C at 95% rel.humidity					
	Enclosure	-IP31 plastic modular casing, mountable to 35mm DIN-rail					
Dimension / Weight	-90 x 62 x 18mm (without DIN-rail fasteners) / 98 x 62 x 18mm (with DIN-rail fasteners) - 45gr						



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