

MG102i Wireless Router

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MG102i wireless router securely and wirelessly connects two private networks/sites (e.g. Remote LAN and company Intranet) via public mobile networks and the Internet. The benefits of such Virtual Private Networks (VPN) are flexibility, security, cost-effectiveness and convenience.

The MG102i is a GPRS/EDGE/UMTS/HSPA+/LTE router and enables fast and secure data transmission between two sites. For the establishment of Virtual Private Networks (VPN) two different

technologies are supported: IPsec and OpenVPN. For simple applications the use of Dynamic DNS or fixed IP addressing can replace the need of a VPN.

Multiple devices can directly be attached to the MG102i thanks to the integrated 5 port Ethernet switch. The dual SIM/dual module feature guarantees best availability of network connections. MG102i Software is based on well proven components including an Embedded Linux operating system and standard communication protocols.

The MG102i is a new product that extends HW and SW functionality of previous MG102 and is fully SW compatible with M!DGE routers.

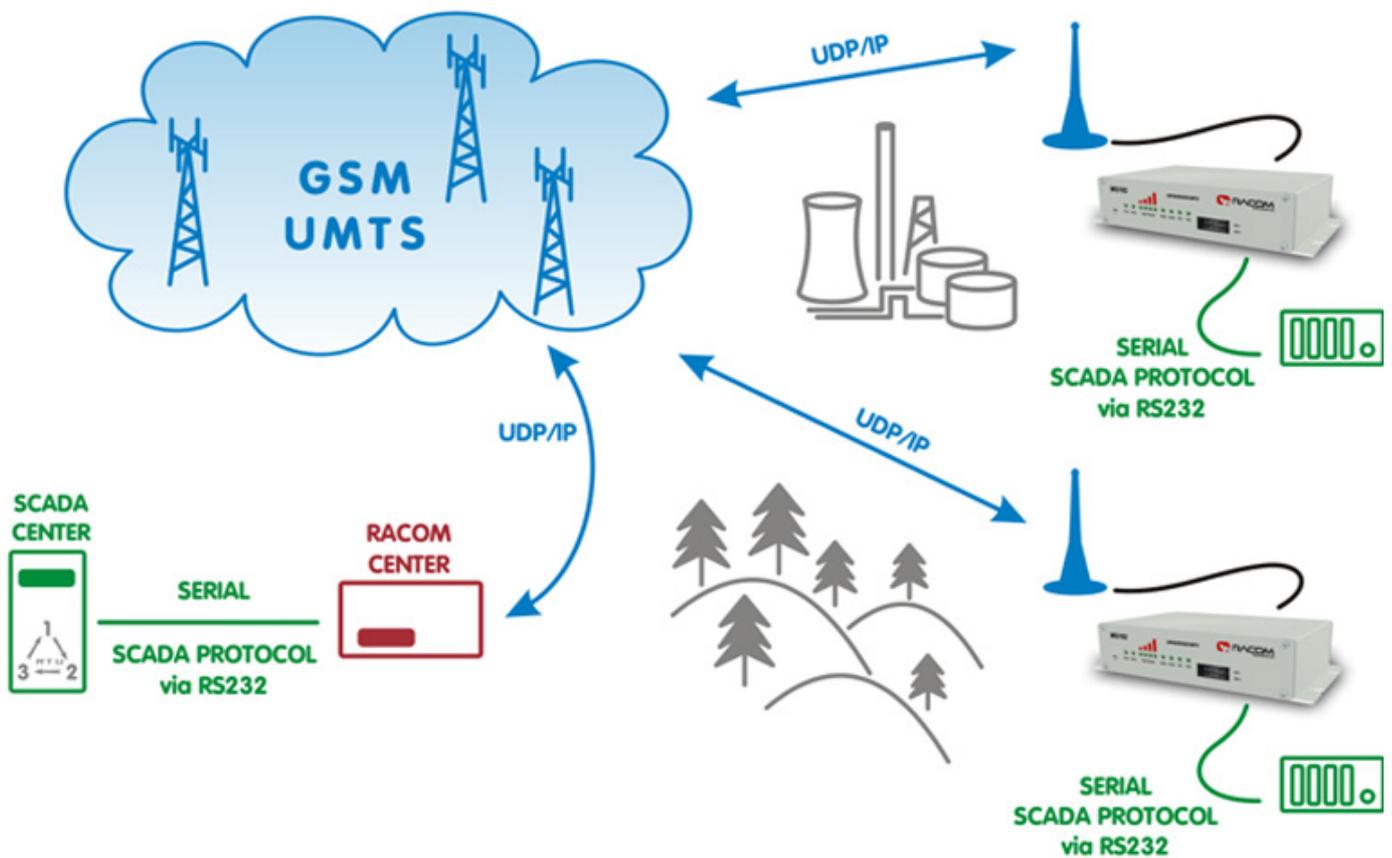
The addressed SCADA and telemetry serial protocols can be efficiently used over GSM networks. The MG102 Terminal server can communicate with a RACOM central device equipped with serial protocols, e.g. RipEX.

A hybrid network, where individual RTUs are connected either via MG102 (GSM) or via RipEX (UHF radio) to the same centre, is possible as well.

Wireless Router

- ✓ LTE,HSPA+,UMTS,EDGE,GPRS
- ✓ 5 port Ethernet switch / router
- ✓ 2x SIM / twin module available
- ✓ Extended temperature range
- ✓ Vibration and shock hardened
- ✓ Extended input voltage range
- ✓ GPS receiver with NTP server
- ✓ SDK - software development kit

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Applications

- ✓ SCADA & Telemetry
- ✓ Points of Sale, ATMs
- ✓ Security and Surveillance
- ✓ Land line backup
- ✓ Transportation

Technical parameters

Mobile Interface Parameters

- UMTS Multimode HSDPA, HSUPA, UMTS, EDGE, GPRS and GSM
3G–UMTS, HSDPA, HSUPA, UMTS: 850/900/1900/2100 MHz
2G–EDGE, GPRS, GSM: 850/900/1800/1900 MHz
Data rates: max. 7.2 Mbps downlink / 5.76 Mbps uplink
- LTE Multimode LTE, HSPA+, UMTS, EDGE, GPRS, GSM
4G–LTE: 800/900/1800/2100/2600 MHz
3G–UMTS/HSPA+: 900/2100 MHz
2G–GSM/GPRS/EDGE: 900/1800/1900 MHz
Data rates up to 100 Mbps downlink / 50 Mbps uplink

Services / Networking

- DHCP server, DNS proxy server, DNS update agent
Telnet server, SSH server, Web server
NTP server with GPS time
COM server, Modbus gateway
Port Forwarding
Fallback Management
Connection supervision
Automatic connection recovery
OpenVPN, IPsec, PPTP
Firewall, Access Control Lists, NAT
SDK - programmable scripts
Redundancy
Voice gateway

Interfaces

- 5 port Ethernet switch 10/100 Base-T, Auto MDX, 5xRJ45 connector
RS232 DCE interface, 3 pin
GSM Antenna 50 Ohm, SMA connector
GPS Passive / Active Antenna, SMA connector
USB Host
Digital I/O: 2xDI, 2xDO, 13 pin terminal block
WLAN / WiFi - IEEE 802.11 b,g,n
Access point or client, one or two antennas

Mechanical

- Casing: Metal
Dimensions: 195 W x 104 D x 40 H mm (7.68 x 4.09 x 1.57 in)
Weight : 560 g (1.23 lbs)

Environmental

Temperature range: UMTS: -25 to +70°C (-13 to +158°F)

LTE: -25 to +60°C (-13 to +140°F)

Humidity: 0 to 95% non condensing

IP 40 with SIM and USB covers

Vibration and shock hardening

Power supply

Input voltage: 12 - 48 V DC (-15% / +20%)

Max. power consumption: 5 W / 10 W (2 module unit)

Diagnostics and Management

Web interface, CLI available

File configuration

OTA SW update

Advanced troubleshooting

SMS remote control, SMS and E-mail notification

SNMP v1, v2c, v3

Approvals

CE, FCC



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