

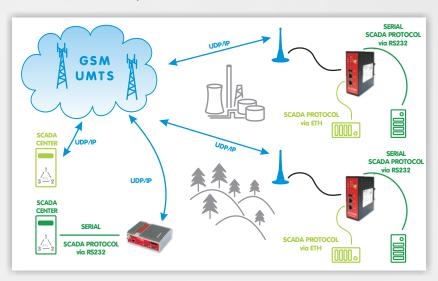
General

M!DGE wireless routers have been specially designed for **SCADA** and **Telemetry**, nevertheless are well suited to many different wireless applications. M!DGE HW and SW is ready to maintain reliable and secure connections from an unlimited number of remote locations to a central server. Both standard Ethernet/IP and serial interfaces are available. Moreover, two digital inputs and two digital outputs can be used for direct monitoring and control of application devices.

M!DGE versatility is further enhanced by the two independent **Ethernet** ports. These can be configured to either support two independent LANs (e.g. **LAN** and **WAN** settings), or simply connect two devices within one LAN (effectively replacing an Eth switch). M!DGE software is based on well proved components, including an Embedded Linux operating system and standard IP communication protocols.

M!DGE combined with an **MG102i** two-SIM router in one network is quite easy to do because of fully compatible interface settings and behaviour on all HW interfaces. Thanks to compact size and versatility, M!DGE wireless routers prove indispensable in many SCADA and Telemetry, as well as POS, ATM, Lottery and Security/Surveillance applications.

M!DGE together with the RACOM **RipEX** radio **router** offers an unrivalled solution for combining **GPRS** and **UHF/VHF** licensed radio in a single network. Even a single RipEX in the centre of a M!DGE network allows for efficient use of addressed serialSCADA protocols.



MIDGE



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Wireless router

- LTE/HSPA+/UMTS/EDGE/GPRS
- 2x ETH, switch or router
- 1x COM, 1x USB
- 2x digital output
- 2x digital input
- Failover for fixed line
- Redundant dual power inputs
- -25 to 70 °C
- 10.2 57.6 VDC
- SDK software development kit

Applications

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



Technical parameters

Mobile Interface Parameters

M!DGE UMTS - HSDPA/HSUPA/UMTS: 850/900/1900/2100 MHz

EDGE/GPRS: 850/900/1800/1900 MHz

Data rates: max. 7.2 Mbps downlink / 5.76 Mbps uplink

M!DGE LTE -LTE: 800/900/1800/2100/2600 MHz, UMTS/HSPA+: 900/2100 MHz

GSM/GPRS/EDGE: 900/1800/1900 MHz

Data rates: max. 100 Mbps downlink / 50 Mbps uplink

Power supply

Input voltage 10.2 - 57.6 VDC (12 - 48 VDC -15%/+20%)

Max. power consumption

Dual power connector

Services / Networking

DHCP server, DNS proxy server, DNS update agent

Telnet server, SSH server, Web server

COMserver, Modbus gateway

Port Forwarding

Fallback Management

Connection supervision Automatic connection recovery

OpenVPN, IPsec, PPTP, NAPT

Firewall, Access Control Lists

NTP

VRRP

Approvals

CE. FCC

Interfaces

2x Ethernet 10/100 Base-T, Auto MDX, 2xRJ45 bridged or routed

RS232 interface 3 wired

2x Digital Input, 2x Digital Output

USB Host - USB type A

GSM Antenna 50 Ù, SMA connector

Environmental

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

0 to 95 % non condensing

IP 40

Mechanical

Casing: Metal

Dimensions: 45 W × 110 D × 125 H mm (1.77 × 4.33 × 4.92 in)

Weight: 450 g (0.99 lbs)

DIN rail mounting kit included

Diagnostics and Management

Web interface, CLI available

File configuration

OTA SW update

Advanced troubleshooting

SMS remote control, SMS and E-mail notification

