



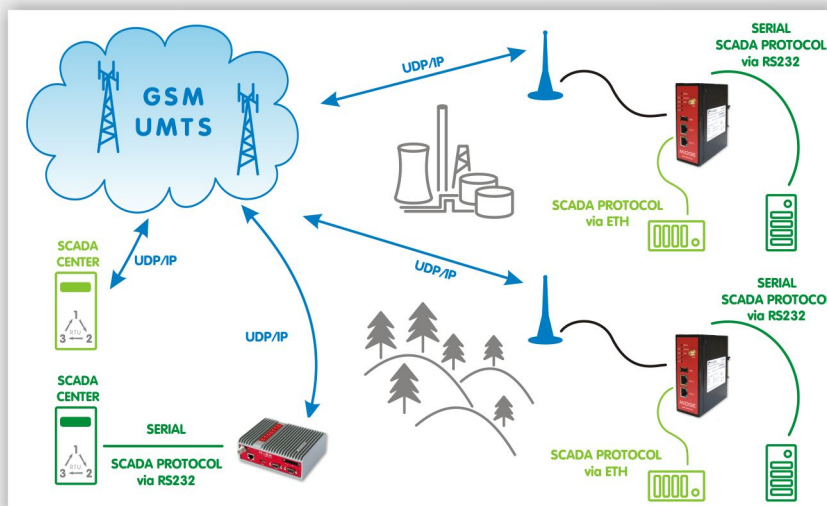
## General

**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 **TCP/IP** communication protocols.

Combining **M!DGE** with an **MG102** 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 M!DGE and versatility, wireless routers prove indispensable in many SCADA and telemetry, as well as POS, ATM, lottery and security/surveillance applications.

The **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 serial SCADA protocols.



## Wireless router

- Y HSPA / UMTS / EDGE / GPRS
- Y 2x ETH, switch or router
- Y 1x COM, 1x USB
- Y 2x digital output, 2x digital input
- Y 3G failover for fixed line
- Y Redundant dual power inputs
- Y -25 to 70 °C
- Y 10.2 - 57.6 VDC

## Applications

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

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# Technical parameters

## Mobile Interface Parameters

Multimode HSDPA, HSUPA, UMTS, EDGE, GPRS a GSM  
Global connectivity 2G (850/900/1800/1900 MHz) and 3G (850/900/1900/2100 MHz)  
Transparent hand-over between 2G and 3G  
Data rates: max. 7.2 Mbps downlink / 5.76 Mbps uplink

## Power supply

Input voltage 10.2 - 57.6 VDC (12 - 48 VDC -15%/+20%)  
Max. power consumption 5 W

## 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

## Interfaces

2x Ethernet 10/100 Base-T, Auto MDX, 2xRJ45, 2 port switch or LAN+WAN  
RS232 interface 3 wired  
2x Digital Input, 2x Digital Output  
USB Host – USB type A  
GSM Antenna 50 Ω, 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 x 110 D x 125 H mm (1.77 x 4.33 x 4.92 in)  
Weight : 450 g (0.99 lbs)

## Diagnostic and Management

Web interface, CLI available  
File configuration  
OTA SW update  
Advanced troubleshooting  
SMS remote control, SMS and E-mail notification

