M!DGE – Cellular Router





- 4G / 3G / 2G
- 2x ETH, Switch or Router
- 1x COM, 1x USB
- 2x Digital Output
- 2x Digital Input
- Failover for fixed line
- Redundant power inputs
- -25 to +70 °C
- 10.2 57.6 VDC
- SDK
- SCADA protocols

General

M!DGE cellular routers have been designed for SCADA and Telemetry, and are also 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. Standard Ethernet/IP and serial interfaces are both available. Moreover, two digital inputs and two digital outputs can be used for direct monitoring and control of application devices.

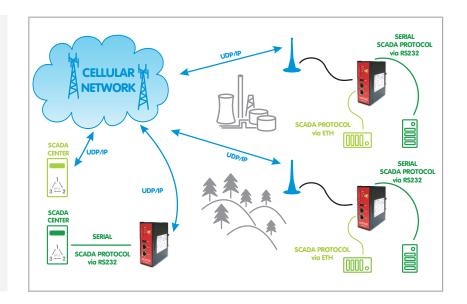
M!DGE versatility is further enhanced by two independent **Ethernet** ports. These can be configured to either support two independent LANs (working as Router), or simply connect two devices within one LAN (working as Switch). M!DGE is based on well proven components, including an embedded Linux operating system and standard IP communication protocols.

M!DGE provides a unique feature for serial SCADA protocols when SCADA addresses are mapped to M!DGE IP addresses thus making remote-to-remote communication possible. Thanks to their compact size and versatility, M!DGE cellular routers prove indispensable in many SCADA and Telemetry, as well as POS, ATM, Lottery and Security/Surveillance applications.

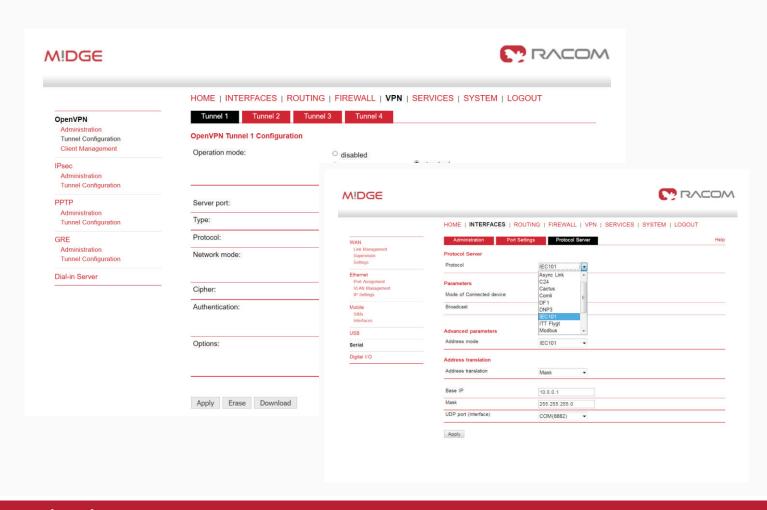
M!DGE together with the RACOM **RipEX** radio **router** offers an unrivalled solution for combining **Cellular** and **UHF/VHF** licensed radio in a single hybrid network.

Applications

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







Technical parameters

Cellular Interface

LTE - 4G - LTE: B1(2100), B2(1900), B3(1800), B5(850), B7(2600), B8(900), B20(800), all bands with diversity 3G - WCDMA, HSPA, HSPA+: B1(2100), B2(1900), B5(850), B8(900), all bands with diversity 2G - GPRS, EDGE, GSM: 850, 900, 1800, 1900 Data rates up to 100 Mbps downlink / 50 Mbps uplink LTE450 - 4G - LTE: B3(1800), B7(2600), B20(800),B31(450) all bands with diversity 3G - WCDMA, HSPA, HSPA+: B1(2100), B8(900) all bands with diversity 2G - GPRS, EDGE, GSM: 900, 1800

Data rates up to 100 Mbps downlink / 50 Mbps uplink

Interfaces

2x Ethernet 10/100 Base-T, Auto MDX, 2x RJ45 bridged or routed RS232 interface 3 wired 2x Digital Input, 2x Digital Output USB Host – USB type A GSM Antenna 50 Ω, SMA connector (LTE: 2x SMA)

Environmental

Temperature range: -25 to +70°C (-13 to +158°F) – M!DGE LTE
Humidity: 0 to 95 % non condensing
IP 40

Power supply

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

Services / Networking

Fallback Management
Connection supervision, Automatic connection recovery
Quality of Service (QoS)
OpenVPN, IPsec, PPTP, GRE, Dial-In
VRRP
DHCP server, DNS proxy server, DNS update agent
Telnet server, SSH server, Web server
NTP
Device server, Protocol server, SDK
Port Forwarding (NAPT)
Firewall, Access Control Lists

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
SNMPv1/v2c/v3

Approvals

CE, FCC

