

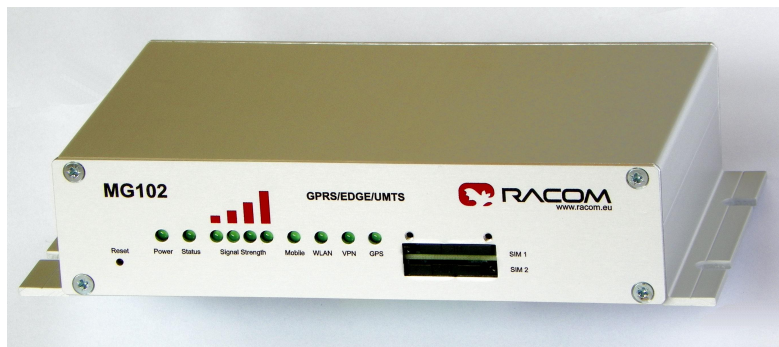
Quick Start – M!DGE / MG102 Wireless Router

6/13/2017

1. Welcome

Thank you for buying M!DGE / MG102 Wireless Router from RACOM.

Please read this Quick Start Guide carefully since it contains important security notes (section 2) and compliance information (section 5). In addition, this guide provides you with essential information for the installation, configuration and maintenance of the system. Please find further information in the user's manual.



2. Safety Instructions

The M!DGE/MG102 Wireless Routers must be used in compliance with any and all applicable international and national laws and in compliance with any special restrictions regulating the utilization of the communication module in prescribed applications and environments. Use only the original accessories to prevent possible injury to health and damage to appliances and to ensure that all the relevant provisions have been complied with.

Unauthorized modifications or utilization of accessories that have not been approved may void the warranty.

The M!DGE/MG102 Wireless Routers must not be opened. Only the replacement of the SIM card is permitted.

Voltage at all connectors of the communication module is limited to SELV (Safety Extra Low Voltage) and must not be exceeded. For antenna interfaces transients up to 1500V according to TNV-1 are allowed. Use only with certified (CSA or equivalent) power supply, which must have a limited and SELV circuit output.

The MIDGE/MG102 Wireless Routers are designed for indoor use. Do not expose the communication module to extreme ambient conditions. Protect the communication module against dust, moisture and high temperature.

We remind the users of the duty to observe the restrictions concerning the utilization of radio devices at petrol stations, in chemical plants or in the course of blasting works in which explosives are used. Switch off the communication module when traveling by plane.

You must proceed with increased caution when using the communication module in close proximity of personal medical devices, such as cardiac pacemakers or hearing aids.

MIDGE/MG102 Wireless Routers may cause interference if it is in the proximity of TV sets, radio receivers and personal computers.

After configuration it is recommended that you should create a copy or backup of the configuration settings that are stored in the memory of the device.

The configuration data can be downloaded using the Web Manager.

Do not work at the antenna installation during a lightning.

Always keep a distance bigger than 40 cm from the antenna in order to reduce your exposure to electromagnetic fields below the legal limits. This distance applies to Lambda/4 and Lambda/2 antennas. Bigger distances apply for antennas with higher gain.

For outdoor installations, use antennas with overvoltage protection limiting the voltage to 1500 V.

Consult the manual for the installation. Adhere to the instructions documented in the user manual.

3. Installation

MIDGE/MG102 Wireless Routers are designed for mounting on a panel using through holes or a DIN rail mounting kit or to be put on a worktop. Please consider the safety instructions in section 2.

MIDGE/MG102 Wireless Routers will only operate reliably over the cellular network if there is a good signal. For many applications a flexible stub antenna will be suitable but in some circumstances it may be necessary to use a remote antenna with an extension cable to allow the antenna itself to be positioned to provide the best possible signal reception. RACOM can supply a range of suitable antennas.

Step 1 – Installing the SIM card

Insert a SIM card into the SIM socket. If the router has two SIM card sockets, use the first one. Make sure the SIM is suitable for data transmission.

Step 2 – Connecting the GSM/UMTS antenna

Fit a GSM/UMTS antenna. Contact RACOM for suitable antennas.

Step 3 – Connecting the GPS antenna (if applicable)

Connect the GPS antenna cable to the GPS antenna connector.

Step 4 – Connecting the LAN cable

Connect one M!DGE/MG102 Ethernet port to your computer using a crossover cable if there is no switch in between.

Step 5 – Connecting the power supply

Connect the smaller end of power supply adapter to the M!DGE/MG102 power socket. Connect the other end of the power supply adapter to a standard electrical outlet.

4. Configuration

Access to the M!DGE/MG102 Web Manager:
Routers come with the DHCP server enabled.

1. If not yet enabled, please enable the Dynamic Host Configuration Protocol (DHCP) on your computer so that it can lease an IP address from the M!DGE/MG102. Wait a moment until your computer has received the parameters (IP address, subnet mask, default gateway, DNS server).

Alternative:

Instead of using the DHCP, configure a static IP address on your PC (e.g. 192.168.1.2) so that it is operating in the same subnet as the M!DGE/MG102. The M!DGE/MG102 default IP address is 192.168.1.1, the subnet mask is 255.255.255.0.

2. Open a web browser such as Internet Explorer or Firefox. In the web browser's address field, enter the default IP address of the M!DGE/MG102 (i.e. <http://192.168.1.1>); the initial screen appears.
3. Follow the instructions and use the M!DGE/MG102 Web Manager to configure the device.

5. Compliance Information

M!DGE/MG102 Wireless Routers are GSM/UMTS/WLAN routers and therefore intended to connect to a cellular network. The intended use is to access GSM or UMTS networks for IP data transmission. The world-wide operation of these routers is generally permitted.

5.1. EU Declaration of Conformity



EU DECLARATION OF CONFORMITY

Radio equipment type **MG102i**
 MG102i LTE

Manufacturer **RACOM s.r.o.**
 Mirova 1283, 592 31 Nove Mesto na Morave, Czech Republic


This declaration of conformity is issued under the sole responsibility of the manufacturer.

The radio equipment described above is in conformity with the Directive 2014/53/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.

Harmonised standards used for demonstration of conformity:

Spectrum	EN 301 511 V9.0.2 EN 301 908-1 V7.1.1 EN 301 908-13 V6.2.1
EMC	EN 300 440-2 V1.4.1 EN 301 489-1 V1.9.2 EN 301 489-3 V1.6.1 EN 301 489-7 V1.3.1 EN 301 489-24 V1.5.1
Safety	EN 60950-1:2006, A11:2009, A1:2010, A12:2011, A2:2013
Health	EN 50385:2002 EN 62311:2008

Signed for and on behalf of the manufacturer:

Nove Mesto na Morave, 9th of June 2017
Jiri Hruska, CEO 

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ver. 1.0

Fig. 1: EU Declaration of Conformity MG102i



EU DECLARATION OF CONFORMITY

Radio equipment type	M!DGE M!DGE LTE
Manufacturer	RACOM s.r.o. Mirova 1283, 592 31 Nove Mesto na Morave, Czech Republic

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EMC	EN 301 489-1 V1.9.2
	EN 301 489-3 V1.6.1
	EN 301 489-7 V1.3.1
	EN 301 489-24 V1.5.1
Safety Health	EN 60950-1:2006, A11:2009, A1:2010, A12:2011, A2:2013
	EN 50385:2002
	EN 62311:2008

Signed for and on behalf of the manufacturer:

Nove Mesto na Morave, 9th of June 2017
Jiri Hruska, CEO

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Fig. 2: EU Declaration of Conformity M!DGE

5.2. RoHS and WEEE compliance

The M!DGE/Mg102 Router is fully compliant with the European Commission's RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives.

RoHS Restriction of hazardous substances (RoHS)

The RoHS Directive prohibits the sale in the European Union of electronic equipment containing these hazardous substances: lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), and polybrominated diphenyl ethers (PBDEs).

End-of-life recycling programme (WEEE)



In accordance with the requirements of the council directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), ensure that at end-of-life you separate this product from other waste and scrap and deliver it to the WEEE collection system in your country for recycling.