

RACOM NEWSLETTER #06/2009

Pdf version can be downloaded here:

<https://www.racom.eu/eng/download/bulletins.html>

GPRS/EDGE/UMTS Routers

It is our pleasure to inform you that RACOM has modernized and extended its product portfolio with GPRS/EDGE/UMTS routers:

MG100i

The MG100i is a modernized version of well known MG100 GPRS modem. MG100i is available for GPRS/EDGE/UMTS.

MG100i is fully compatible with PROFI radio modems on user interfaces and is controlled using the same software tools, Network Management Software RANEC including. Because of that the main supposed usage of MG100i is in MORSE hybrid networks, where data transfer over Radio channel and GPRS/EDGE/UMTS are combined.

<http://www.racom.eu/eng/products/mg100i.html>

MG101

The MG101 is small but powerful and full featured GPRS/EDGE router with 1xETH and 1xRS232 interfaces. There are also 2 digital inputs and 2 digital outputs that let you manage any sensor or actuator, e.g. a door contact or an emergency stop. MG101 software includes all state of art functions like DHCP, DNS, SSH, OpenVPN, IPsec, NAT, Web management etc.

<http://www.racom.eu/eng/products/mg101.html>

MG102

The MG102 is high end GPRS/EDGE/UMTS router fitted with 4 port Ethernet switch and 1x RS232 or half-duplex RS485. It works in extended temperature range from -20 °C to +70 °C. MG102 has got 2 SIM card holders, so 2 independent GSM/UMTS network providers can be used. Of course, MG102 software offers all state of art functions like DHCP, DNS, SSH, OpenVPN, IPsec, NAT, Web management etc.

<http://www.racom.eu/eng/products/mg102.html>

RE400

RE400, transparent intelligent radio bridge with Ethernet and RS232 interfaces suitable for smaller networks, is fully under mass production. It passed challenging field and climate tests and we are proud to say that all its features have been proved. Especially its sensitivity (communication distance) is on the top in this category of radio modems. Currently RE400 is available from stock in these models:

RE390 373,250 – 402,000 MHz

RE410 400,000 – 420,000 MHz (398,750 – 421,500 MHz)

RE430 417,500 – 447,500 MHz

RE450 435,000 – 466,500 MHz

RE470 462,000 – 484,000 MHz

<http://www.racom.eu/eng/products/economy.html>

MServer

MServer, a server supplied for MORSE network mainly for Network Management Software RANEC has been modernized. Now it is possible to install it by yourself on your hardware. OS Linux and MySQL database are still its core, however when your server runs on MS Windows, whole package can be installed via virtual machine like e.g. VMware.

There is a wide range of possible deliveries from free self installation, through paid support to turn key delivery of HW&SW.

<http://www.racom.eu/eng/products/ranec.html>

Italy

Hydrographic service of the fire prevention and civil defense sector of Provincia Autonoma di Bolzano in Italy uses MR400 radio modems for its SCADA network for weather and hydrometric stations. RACOM radio modems work here in really harsh environment on Wilder Freiger Mountain in altitude of 3.400 m. The network covers 7.500km² and should expand up to 70 sites.

http://www.aineva.it/pubblica/neve65/2_hydro.html

Chile

Chile is the next place, where RACOM radio modems work in extreme climate and uninhabited area. MR160 (25W) radio modems have been installed in mobile network covering railway between Huasco and Llanos de Soto in Cordilleras mountains. The railway is used for transportation of iron ore. This really is middle of nowhere place: no vegetation, no infrastructure, no people; just desert, dust and extreme temperature fluctuation from -20° C to +40° C. MORSE network is used for tracking of 16 trains on the line which is covered from 4 base stations.

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