

GPRS/EDGE

EDGE router ER75i

2 x SIM possible



■ Traffic cameras

■ Interconnection of industrial control systems

■ Interconnection PC or LAN



■ Connection of ATM and POS

■ Security and surveillance cameras



GPRS/EDGE router ER75i interconnects large variety of equipment into Internet or Intranet. Namely computers, controlling systems or LAN networks. Router is standardly equipped by 1 x Ethernet 10/100 and 1 x USB - B. We can deliver version with one more optional port RS232 or RS422 or RS485 or MBUS or inputs/outputs (I/O) and add extra SIM on request of customer. Via Ethernet or optional port is possible to connect any device with above mentioned interface such as ATM, various industrial metering devices, GPS etc. by GPRS/EDGE wireless technology.

Because of advanced EDGE technology is communication speed 236 Kb/s. There is not problem to transfer for example pictures

from cameras (traffic, crossroads cameras, security cameras monitoring problematic spots in towns, buildings etc.). If EDGE technology is not available, ER75i communicates in slower GSM-GPRS system - speed up to 85,6 Kb/s.

EDGE router ER75i is easy to use. Very important is user friendly configuration environment via web browser (HTTP) that is protected by password. It is also possible to use SNMP protocol for diagnostics, MBUS or I/O optional port reading. Interesting feature is also SMS message remote control from mobile phone - for example on/off connection etc.

for devices with interface

ethernet
RS232 ■ RS485 ■ MBUS ■ I/O

Networking

- DHCP – automatic IP addressing in LAN network
- NAT – IP address and ports translation between inside/outside network
- VRRP – virtual backup router function
- DynDNS client – access to the router with a dynamic IP address
- Dial-in – the ability to communicate over dial CSD call

VPN tunnelling

- IPsec, OpenVPN, L2TP – secure encrypted tunnels
- GRE tunnel – simple tunnel without security measures

Configuration and diagnostics

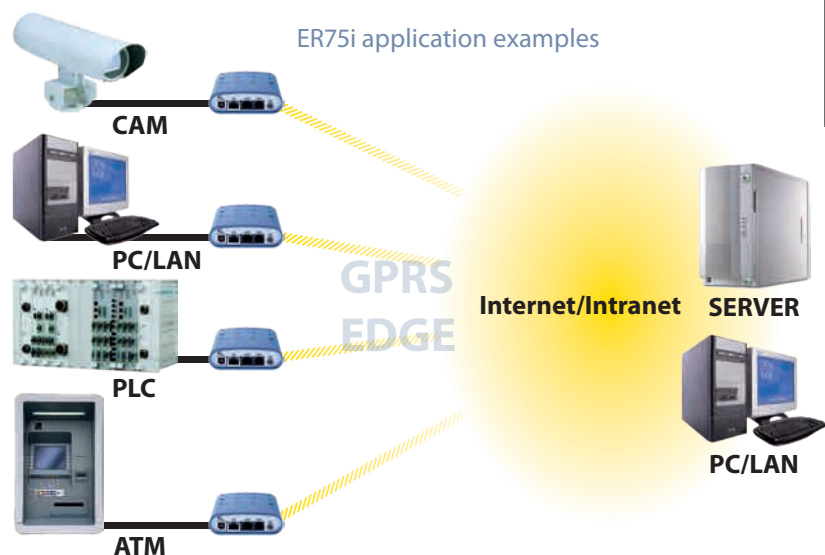
- HTTP server – configuration via web server
- Telnet – configuration and access to the file system
- SNMP – router diagnostics, communication with I/O and M-BUS
- GPRS state signalization by LED
- On-line info on GSM signal status (level, cell, neighbours)
- SMS info – power on, GPRS connection or disconnection
- SMS control – on/off GPRS connection, switch SIM, I/O etc.
- Transferred data counting, one more APN as backup
- Remote router group configuration change, switching among configuration profiles

Other functions and features

- Linux based, possibility to program your own application
- NTP client, NTP Server – time synchronization
- SMS communication – AT commands on RS232, Ethernet and I/O

Extensions

- DUO version – two SIM cards for backup communication
- Optional port RS232 / RS485 / RS422 / M-BUS Master or CNT (I/O - 2 × binary input, 2 × counter / binary input, 2 × analog input, 1 × output) – optional port delivered on request of customer
- Metallic or plastic cover



Standard version in plastic cover



Version SL - metal cover

ER75i communication parameters

| | |
|-----------------|---|
| Frequency bands | EGSM850/EGSM900 MHz GSM1800/GSM1900 MHz |
| GPRS/EDGE | max. download 236 Kbps max. upload 85,6 Kbps |

General overview

| | |
|-------------------|--|
| Temperature range | from -20 °C to +55 °C |
| Power supply | 10 V to 30 V DC |
| User interface | 1 × Ethernet (10/100 Mbit/s) 1 × USB 2.0 type B 1 × Optional Port 1 – on request of customer one of the following interfaces: <ul style="list-style-type: none"> • RS232 • RS485/RS422 • MBUS • CNT – inputs/outputs (I/O) |
| Dimensions | 30×90×102 mm (DIN rail 35 mm) |
| Weight | 150 g |
| Antena connector | FME – 50 Ohm |
| Standards | comply CE EN 301 511, v9.0.2 EN55022:1998 A1:2000 A2:2003 Cor:2003 EN 60950:2001 |

USB 2.0 enables router connection to PC with operation system Windows 2000, Windows XP and Windows Vista. Drivers are on CD delivered together with ER75i.

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