wireless communication
monitoring – control

Conel

ISO 9001:2009

GPRS/EDGE router ER75i v2

› Producer website
www.conel.cz

TYPICAL APPLICATIONS

Industry & IT
- Remote machine service & control
- LAN and PC connection
- PLC wireless connection, meter connection
- SCADA connection

Transport
- Trucks/containers
- Trains, river boats, taxi cars

Mobile applications
- Traffic/security cameras
- Kiosks, ATM, ticketing machines
- Meteorology/seismology

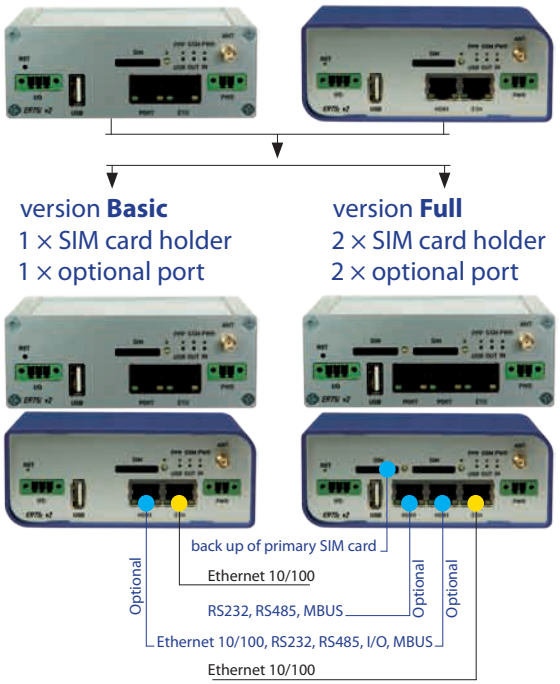
Energy
- Wind power stations, solar panels
- Gas distribution systems
- Water distribution systems

Selected case studies see at
http://www.conel.cz

Take advantage of fully modular concept

Buy exactly what you need

Metallic housing | Plastic housing



Optional port is delivered on request of customer –
it is left blank (connector only) or equipped by one of the interfaces marked above.

GPRS/EDGE router ER75i v2 interconnects large variety of equipment into Internet or Intranet – computers, controlling systems (PLC), ticketing machines, kiosks, wind or solar power stations etc.

GPRS/EDGE router ER75i v2 enables transfer of your datas at maximum speed rate 236,8 kb/s for downlink and 85,6 kb/s for uplink. This is an effective speed for example for PLC interconnection with SCADA system, connection of various meters (water, electricity, temperature etc.) or data transfer from parking machines or various kinds of kiosks.

The main benefit is price/performance ratio in applications where lower communication speed offered by GPRS/EDGE technology is acceptable. Router is designed to work reliably in the professional applications requesting high data security and availability nearly anywhere around the globe thanks to common GPRS technology.

for devices with interface

ethernet

USB▪RS232▪RS485▪MBUS▪I/O

HTTP DHCP NAT VRRP SNMP

IPsec OpenVPN DynDNS SMS

Networking

- DHCP – automatic IP addressing in LAN network
- NAT/PAT – 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
- PPPoE Bridge – PPP frames encapsulation inside ETH frames

VPN tunnelling

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

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/EDGE 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
- SSH – encrypted configuration and access to the file system

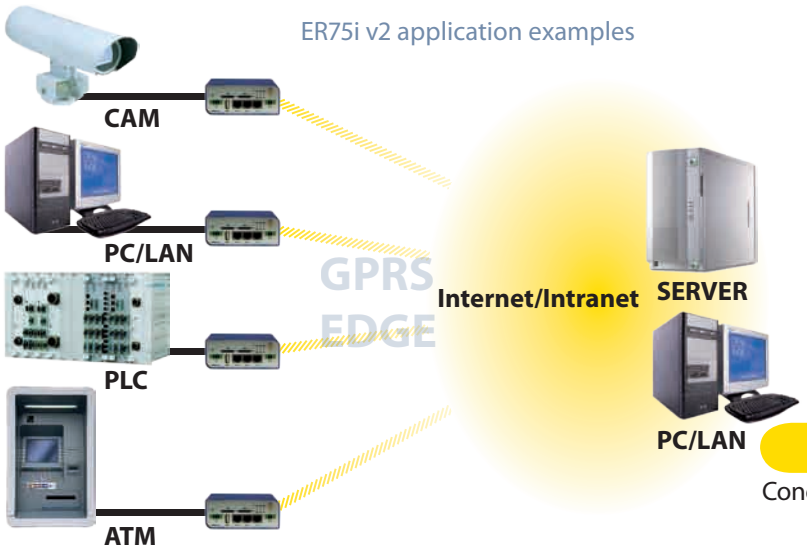
Other functions and features

- Linux based, possibility to program your own application
- NTP client, NTP Server – time synchronization
- SMS communication – AT commands on RS232, Ethernet and I/O
- M-RAM memory inside – router statistic´s saving into memory

Extensions

- 2 × optional port: Port 1 and Port 2
  Port 1: Ethernet 10/100, RS232, RS485/RS422, M-BUS Master or CNT (I/O) - 2 × binary input, 2 × counter / binary input, 2 × analog input, 1 × binary output)
  Port 2: RS232, RS485/RS422, M-BUS Master
- Optional ports delivered on request of customer
- 1 × SIM card holder
- Metallic or plastic cover
- R-SeeNet – monitoring and management SW for routers

ER75i v2 application examples



Robust DIN holder

Version standard - plastic housing

Robust DIN holder

Version SL - metal housing

ER75i v2 communication parameters	
Frequency bands	• Quad-Band 850/900/1800/1900 MHz
GPRS/EDGE	max. download 236,8 kb/s max. upload 85,6 kb/s

General overview	
Temperature range	from –30 °C to +60 °C
Power supply	10 V to 30 V DC
User interface	1 × Ethernet (10/100 Mbit/s) 1 × USB 2.0 type A Host 1 × I/O (binary input/output) 2 × Optional port – on request of customer one of the following interfaces: Port 1: • Ethernet 10/100 • RS232 • RS485/RS422 • M-BUS • inputs/outputs (I/O) Port 2: • RS232 • RS485/RS422 • M-BUS
Dimensions	42×76×113 mm (DIN rail 35 mm)
Weight	150 g
Antena connector	SMA – 50 Ohm
Standards	comply CE EN 301 511, v9.0.2 EN 301 908–1&2, v3.2.1 ETSI EN 301 489–1 V1.8.1 EN 60950–1:06 ed. 2 + A11:09

contact

Conel s.r.o. • Sokolská 71 • 562 04 Ústí nad Orlicí • Czech Republic
Tel.: +420 465 521 020 • Fax: +420 465 521 021
E–mail: info@conel.cz • Web: www.conel.cz