



GPRS • EDGE • HSPA

GWR Cellular Router Series

Skalable Router Series for M2M Applications

GWR routers represent a robust solution designed to provide remote connectivity across cellular networks. Low transmission delay and very high data rates offered by existing cellular networks completely eliminate the need for expensive wired infrastructure. GWR series brings scalability of even most demanding corporate networks to the highest possible level.

Installing a reliable, high performance backup solution for existing land lines or satellite networks is now a simple task thanks to modern cellular networks. Therefore, no matter if the goal is to provide primary internet access or backup solution for already existing network GWR router series represents a top rated solution.

A highly reliable M2M SIM-card with private APN and fixed IP address can improve security and quality of a network connection significantly.

Features:

- Dual SIM card support increases the reliability of the router and provides a solution for those applications where failure of one mobile network must not result in system downtime. Automatic failover feature will detect the failure of primary connection and automatically switch to alternative connection.
- The whole set of advanced WAN settings allow a user to specify desired parameters in order to meet the requirements of specific cellular network. GWR routers proved themselves to be reliable and high performance devices in so many countries around the world.
- VPN (GRE, IPsec and OpenVPN) tunnel support provides powerful options for network expansion and secure data transfer over the cellular network.
- With Serial-to-IP feature it is possible to connect, control and perform data acquisition from almost any device with serial RS232 port. In addition to this feature, GWR router series implements ModbusRTU-to-ModbusTCP functionality designed to support expansion of Modbus SCADA networks over the cellular networks.
- Easy to use web interface, extended CLI (Command Line Interface), detailed log, SMS control feature, partial and full configuration Export/Import. Remote management and monitoring software provide wide range of management functionalities. All those features and tools empower a user with full control over GWR routers.



M2M SIM card with private APN and fixed IP address on request

TYPICAL APPLICATIONS

- Energy, Heat, Water, Gas and Oil Industries
- Remote Management and Monitoring (various industries)
- Financial services and retail (ATM and all types of Vending machines)
- Advertisement systems (Digital Signage)
- Transportation, Meteorology and Alarm Systems
- Telecommunications and Internet Access





Protocols and features

Network

- DHCP server
- RIP
- Port forwarding
- DMZ support
- SNMPv1,2c
- DynDNS
- NTP
- Firewall (NAT, PAT, IP filtering)
- Serial-to-IP
- ModbusRTU-to-ModbusTCP

VPN

- GRE
- GRE Keepalive
- IPsec pass-through
- IPsec
- Data integrity
 - HMAC-MD5, SHA-1
 - Authentication and key management
- IKE, manual keys
- IKE features
 - Perfect Forward Secrecy
 - Auth-Method PSK
 - Identify IP address
 - DPD for constant connection
 - Automatic NAT-T behind NAT
 - Initiator and responder
- IPsec tunnel failover
- OpenVPN

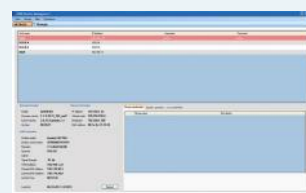
Management



GWR connection wizard



Web application (HTTP based)



Remote management and monitoring software

Technical specifications

Interfaces and connectors

- 1x embedded interface HSPA/ EDGE/GPRS (depending on the router model)
- Dual SIM slots
- SMA female connectors (50 Ω) for external antenna (one or two, depending on the router model)
- 1x Ethernet interface 10/100 Base-T (LAN)
- 1x Serial RS-232 interface
- 1x USB Host 2.0 interface

Status LED

- Ethernet activity/network traffic
- Power on
- GSM link activity
- Signal quality
- Reset

Power requirements

- -12VDC / 1000mA (9-36V DC option is available)

Environmental

- Operating temperature: -10° C - 55° C (14° F - 131° F)
- Storage temperature: -20° C - +85° C (-4° F - +185° F)
- Relative humidity: 5% - 95% (non-condensing)

Housing

- Robust metal housing (optional DIN rail mounting kit)
- Size (W x D x H): 95 x 135 x 35 mm
- Weight: 380 gr

RF characteristics

RF characteristics depend on the GWR router model. Below is a list of available router models from GWR series and corresponding RF characteristics:

GWR202 model – GPRS

GPRS Tri-band: 900/1800/1900
 GPRS multi-slot class 10, mobile station class B
 GPRS DL: 85.6Kbps, UL: 42.8Kbps

GWR252 model – GPRS/EDGE

GSM/GPRS/EDGE Quad band: GSM 850/900/1800/1900
 GPRS/EDGE multi-slot class 12, mobile station class B
 EDGE DL: 236.8Kbps, UL: 236.8Kbps
 GPRS DL: 85.6Kbps, UL: 85.6Kbps

GWR352 model – GPRS/EDGE/UMTS/HSPA

UMTS/HSDPA/HSUPA Quad band: 850/900/1900/2100
 GSM/GPRS/EDGE Quad band: 850/900/1800/1900 MHz
 GPRS/EDGE multi-slot class 12, mobile station class B
 HSDPA DL: 7.2Mbps, HSUPA UL: 5.76Mbps
 UMTS DL: 384Kbps, UL: 384Kbps
 EDGE DL: 236.8Kbps, UL: 236.8Kbps
 GPRS DL: 85.6Kbps, UL: 85.6Kbps