

GPRS/EDGE  
HSDPA/HSUPA  
**ROUTERS**



### Introduction

GWR router represents a robust solution designed to provide remote connectivity across mobile networks. Large number of useful features make GWR router a perfect solution for wide variety of applications.

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. When the connectivity over primary connection is restored GWR router will perform switchover to primary connection.

The whole set of advanced WAN settings allow a user to specify desired parameters in order to meet the requirements of specific mobile networks. Easy to use web interface, extended CLI (command line interface), detailed log and remote management software provide wide range of management functionalities.

### Typical application

There are practically no limits when it comes to possible application of GWR router. Support for IPsec, OpenVPN and GRE tunnels makes GWR router suitable for both point to point and point to multipoint connections. No matter if the goal is to connect remote office to central site or multiple RTUs (remote transfer units) to central server this high performance router is the right solution. Using Serial-to-IP feature it is possible to connect any device with RS-232 port and perform remote telemetry, data acquisition or even control the device over the mobile network. ModbusRTU-to-ModbusTCP feature is perfect for extending existing SCADA networks. Wired infrastructure is no longer necessary for building scalable and high performance SCADA system. GWR router will reduce the costs and speed up the ROI process for each one of possible applications. Here is the list of most common GWR router applications:

#### Data collection and system supervision

- Extra-high voltage equipment monitoring
- Running water, gas pipe line supervision
- Centralized heating system supervision
- Environment protection data collection
- Flood control data collection
- Alert system supervision
- Weather station data collection
- Power Grid
- Oilfield
- Light Supervision
- Solar PV Power Solution

#### Financial and department store

- Vehicle based bank service
- POS
- Vending machine
- ATM
- Bank office supervision

#### Security

- Traffic control
- Video Surveillance Solution

#### Other

- Remote Office Solution
- Remote Access Solution

## Key features

### Network

- DHCP server
- RIP
- IP forwarding
- DMZ support
- SNMPv1,2c
- DynDNS
- 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
  - Diffie-Hellman Group 2, 5
  - Auth-Method PSK
  - Identify IP address
  - DPD for constant connection
  - Automatic NAT-T behind NAT
  - Initiator and responder
- IPsec tunnel failover
- OpenVPN

### Configuration

- Web application (HTTP based)
- Configuration via serial console
- Remote management system
- Default reset

### File management

- Firmware upload
- Configuration backup

## Interfaces

- 1x Ethernet: 10/100Base-T (LAN)
- 1x Serial RS-232
- 1x USB Host

## Environmental

- Operating temperature: -5° C to 50° C (32° F to 131° F)
- Storage temperature: -20° C to +85° C (-4° F to +158° F)
- Operating humidity: 10% to 85% (non-condensing)
- Storage humidity: 5% to 90% (non-condensing)

## Certificates

CE certified

**QMS**  
ISO 9001:2008

## RF characteristics

### GWR202 model

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

Quad band: GSM 850/900/1800/1900MHz

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/HSDPA/HSUPA

UMTS/HSDPA/HSUPA: Quad band: 850/900/1900/2100MHz

GSM/GPRS/EDGE: Quad band: 850/900/1800/1900MHz

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

## RF connector

- SMA Female 50Ω

## Status LED

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

## Power supply

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

## Dimensions

- Width: 95mm
- Length: 135mm
- Height: 35mm
- Weight: 380g

