







GWR High Speed cellular router series represents a group of high speed routers specially designed for those applications where high speed data transfers (up to 100 Mbps) over GSM network are required. Complete series is based on reliable and high performance hardware platform using ARM Cortex-A8 microprocessor.

GWR High Speed series inherited the basic concept of GWR cellular router series – RELIABILITY COMES FIRST. Therefore all router models have dual SIM card support. This router series also supports additional WiFi option.

Many useful features make GWR cellular routers a perfect solution for wide variety of mobile broadband applications (video surveillance, digital signage, mobile office and retail/point-of-sale, field service, etc):

- 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 cellular network. GWR routers proved themselves to be reliable and high performance devices in so many countries around the world. All advanced parameters included represent the result of detailed analysis of large number of different cellular networks. In few simple steps it is possible to optimize the performance of the router on almost any cellular network.
- VPN (GRE, IPsec, OpenVPN, PPTP, L2TPv3) 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 implement 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 and 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.



Technical specifications

RF characteristics

GPRS/EDGE/UMTS/HSPA/HSPA+

UMTS/HSDPA/HSPA+: Quad band: 850/900/1900/2100 MHz

GSM/GPRS/EDGE Quad band: 850/900/1800/1900 MHz GPRS/FDGF multi-slot class 12, mobile station class B

HSPA+ DL: 14.4Mbps, UL: 5.76Mbps 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: 42.8Kbps

GPRS/EDGE/UMTS/HSPA/HSPA+/LTE

LTE Five band: 800/900/1800/2100/2600 MHz

UMTS/HSDPA/HSUPA/HSPA+ Dual band: 900/2100 MHz

GSM/GPRS/EDGE Three band: 900/1800/1900 MHz

GPRS multi-slot class 10, mobile station class B

EDGE multi-slot class 12, mobile station class B

LTE DL: 100Mbps, UL: 50Mbps

HSPA+ DL: 21Mbps, UL: 5.76Mbps

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: 42.8Kbps

 $Important\ note: All\ DL/UL\ speeds\ are\ given\ as\ speeds\ defined\ by\ standards.\ Actual\ speeds\ may\ vary\ and\ are$

Wi-Fi

- Wireless Standards: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
- Frequency Band: 2.4GHz to 2.472GHz (1 to 13 channels)
- 11b: 1, 2, 5.5, 11Mbps

11g: 6, 9, 12, 18, 24, 36, 48, 54Mbp

11n: 6.5, 7,2, 13, 14.4, 19.5, 21.7, 26, 28.9, 39, 43.3, 52, 57.8,

• Minimum Reception Sensitivity:

802.11b: -87dBm; 802.11g: -73dBm; 802.11n: -68dBm

• Transmit output power

802.11b: 17dBm; 802.11g: 15dBm; 802.11n: 14.5dBm

Wireless Security

WEP 64 and 128 bits, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK

ADSL2/2+ (ITU G.992.3)

A/B/M Annex: Data rate: Up to 24 Mbps

Modes: PTM & ATM (AAL5 and OAM cells)

PVC: Up to 8 PVCs VC: Up to 65k VCs

Interfaces and connectors

- 1x embedded interface HSPA+ or LTE (depending on the router model)
- Dual SIM slots
- GSM: 2xSMA female connectors (50 Ω) for external antenna
- WiFi: RPSMA female connector (50 Ω) for external antenna
- · ADSL: RJ11 connector
- 1, 2 or 5 Ethernet interfaces (10/100 or 10/100/1000)
- 1x Serial RS-232 interface
- 1x USB Host 2.0 interface

Status LED

• Ethernet activity/network traffic • Power on • GSM/UMTS link activity • WiFi link activity • ADSL link activity (on selected models) • 3G/4G connectivity (on selected models) • Signal quality

Power requirements

12VDC, 1A or 2A depending on a model selected

Environmental

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

Housing

· Robust metal housing with optional DIN rail mounting kit

Dimensions and weight

- Size (W x D x H): 95 x 135 x 35 mm
- · Weight: 380 gr

Management

• Web application (HTTP based); Command Line Interface on serial console, telnet and SSH; GWR connection wizard; Remote management and monitoring software; SMS control; Detailed system log; Default reset; Firmware upload; Partial or full configuration Export/Import; Radius Authentication

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
- Radius & VRRP

VPN

- GRE • GRE Keepalive
- IPSec pass-through
- IPSec main/aggressive
- · 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, PPTP, L2TPv3

Ordering information

Part Number Router description 1 Fast Ethernet port, optional Wi-Fi

GWR352HS-X HSPA+ Router, 1 Ethernet port, 1 RS-232

GWR352HSW-X HSPA+ Router, 1 Ethernet port, Wi-Fi b/g/n, 1 RS-232

GWR402HS-X LTE Router, 1 Ethernet port, 1 RS-232

GWR402HSW-X LTE Router, 1 Ethernet port, Wi-Fi b/g/n, 1 RS-232

1+4 Gigabit Ethernet ports, optional Wi-Fi

GWR362-5-X HSPA+ Router, 1+4 Ethernet ports, 1 RS-232

GWR362-5W-X HSPA+ Router, 1+4 Ethernet ports, Wi-Fi b/g/n, 1 RS-232

LTE Router, 1+4 Ethernet ports, 1 RS-232 GWR462-5-X

GWR462-5W-X LTE Router, 1+4 Ethernet ports, Wi-Fi b/g/n, 1 RS-232

2 Gigabit Ethernet ports, optional Wi-Fi

GWR362-2-X HSPA+ Router, 2 Ethernet ports, 1 RS-232

GWR362-2W-X HSPA+ Router, 2 Ethernet ports, Wi-Fi b/g/n, 1 RS-232 GWR462-2-X LTE Router, 2 Ethernet ports, 1 RS-232

GWR462-2W-X LTE Router, 2 Ethernet ports, Wi-Fi b/g/n, 1 RS-232 ADSL2+, 1 Gigabit Ethernet port, optional Wi-Fi

GWR-A362-X HSPA+ Router, ADSL2+, 1 Ethernet port, 1 RS-232

GWR-A362-W-X HSPA+ Router, ADSL2+, 1 Ethernet port, Wi-Fi b/g/n, 1 RS-232

GWR-A462-X LTE Router, ADSL2+, 1 Ethernet port, 1 RS-232

LTE Router, ADSL2+, 1 Ethernet port, Wi-Fi b/g/n, 1 RS-232 GWR-A462-W-X

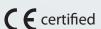
ADSL2+, 4 Gigabit Ethernet ports, optional Wi-Fi

GWR-A362-4-X HSPA+ Router, ADSL2+, 4 Ethernet ports, 1 RS-232 GWR-A362-4W-X HSPA+ Router, ADSL2+, 4 Ethernet ports, Wi-Fi b/g/n, 1 RS-232

LTE Router, ADSL2+, 4 Ethernet ports, 1 RS-232 GWR-A462-4-X

-X at the end of Part Number denotes GSM module

Following manufacturers are available: S – Sierra Wireless • C – Cinterion • H – Huawei



GWR-A462-4W-X



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LTE Router, ADSL2+, 4 Ethernet ports, Wi-Fi b/g/n, 1 RS-232