



GWR HIGH SPEED

CELLULAR ROUTER SERIES

HSPA+/DC-HSPA+/LTE/ADSL/Wi-Fi

GWR High Speed Cellular Router Series has been specially designed for those applications where high speed data transfers (up to 100 Mbps) over Cellular network are required. Complete series is based on reliable and high performance hardware platform using powerful microprocessor.

What GWR High Speed series inherited is 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 Wi-Fi option.

You can choose the most appropriate one for you for sure, between numerous models of these routers: with 1 or 4 Ethernet ports and ADSL2+ port or 2 or 5 Ethernet ports (without ADSL2+) bundled with Wi-Fi. GWR High Speed Cellular Routers feature Layer 3 switches with fast forwarding done via hardware and fully support VLANs (802.1Q). GWR High Speed series is equipped with LCD display enabling user-friendly monitoring and network control with screensaver functionality. With a robust all-metal case and top quality components inside, durability of the product is guaranteed.

Many useful features make GWR cellular routers a perfect solution for wide variety of mobile broadband applications (video surveillance, digital signage, mobile office, retail/point-of-sale, field service, etc). It can be effectively used for various applications such as alert system supervision, connection of ATM machines to central site, bank office supervision, traffic control, Remote Access Solution etc.

Dual SIM card

Fast switch SIM/failover with SIM keepalive support increases the reliability of the router.

Advanced WAN settings

Allows specifying desired parameters in order to meet the requirements of specific cellular network.

VPN tunnel support

Provides powerful options for network expansion and secures data transfer over the cellular network.

Chroot environment

Write scripts and adapt existing functionality to your needs or develop more complex functionality. Support for shell scripts, LUA, Python, Perl and compiled C/C++ executables. Allows access to device peripherals from user's space.

Serial-to-IP feature

Connect, control and perform data acquisition from almost any device with serial RS-232 port. ModbusRTU-to-ModbusTCP functionality is designed to support expansion of Modbus SCADA networks over the cellular networks.

Full control over device

Easy to use web interface, extended CLI (Command Line Interface), SSH, Chroot environment exposed to the customer, Timed Actions, Connection Manager, detailed log, SMS control feature, standard based Simple Network Management Protocol (SNMP) and partial and full configuration Export/Import provide wide range of management functionalities.



Technical specifications

RF characteristics - GPRS/EDGE/UMTS/HSPA+/DC-HSPA+/LTE

GWR462 / GWR-A462 - 4G LTE models

LTE

LTE FDD: 800/850/900/1800/2100/2600 MHz

LTE TDD: 2300/2500/2600 MHz

UMTS/HSPA+/DC-HSPA+

850/900/2100 MHz

GSM/GPRS/EDGE

900/1800 MHz

GWR362 / GWR-A362 - 3G HSPA+ models

UMTS/HSPA+

800/850/900/1900/2100 MHz

GSM/GPRS/EDGE

850/900/1800/1900 MHz

Transfer rates (max)

LTE FDD DL: 150 Mbps, UL: 50 Mbps; **LTE TDD** DL: 130 Mbps, UL: 30Mbps

DC-HSPA+ DL: 42 Mbps, UL: 5.76 Mbps

HSPA+ DL: 14.4 Mbps¹ or 21 Mbps¹, UL: 5.76 Mbps¹

UMTS¹/WCDMA DL: 384 Kbps, UL: 384 Kbps

EDGE DL: 236.8 Kbps¹ or 296 Kbps, UL: 236.8 Kbps

GPRS DL: 85.6¹ or 107 Kbps, UL: 85.6 Kbps

Important note: All DL/UL speeds are given as speeds defined by standards. Actual speeds may vary and are not guaranteed.

¹ The marked data only applies to 3G router models.

Wi-Fi (optional)

- Wireless standard: 802.11b/g/n
- Modes: Access point, Client
- Receive Sensitivity: 54 Mbps / -75.7 dBm and 11 Mbps / -88.7 dBm
- Transmit power: 18.1 dBm max
- Wireless Security: 64/128/256-bit WEP, TKIP or AES keys; WPA and WPA2

Interfaces and connectors

- 1 x embedded interface GPRS/EDGE/UMTS/HSPA+/DC-HSPA+/LTE (depending on the router model)
- Dual SIM slots (Push – Push)
- GSM: 1 or 2 SMA female connectors (50 Ω) for external antennas (depending on the router model)
- Wi-Fi: RP-SMA male connector (50 Ω) for external antenna
- 1, 2, 4 or 5x Ethernet interfaces 10/100 Base-T (depending on the router model)
- 1 x ADSL2+ interface (depending on the router model)
- 1 x Serial RS-232 interface
- 1 x USB Host 2.0 interface

LCD display

- LCD information available: Present/active SIM, GSM provider, SMS available, roaming, signal strength/quality, GSM technology, interfaces, uptime, IP addresses, firmware version
- LCD view port (W x H): 67 mm x 39 mm, LCD viewing angle: 6 o'clock
- Display turn on button enabling IP addresses listing or firmware version

Power supply

- 12 VDC, 2A

Physical

- Dimensions (L x W x H): 160 mm x 100 mm x 31.5 mm
- Weight: up to 0.6 kg depending on the router model
- Housing: Plastic coated 0.8 mm steel sheet, optional DIN rail mounting kit

Environmental

- Operating temperature: -20° C to +70° C
- Storage temperature: -40° C to +85° C
- Relative humidity: 5% to 95% (non-condensing)
- IP rating: IP30
- Ethernet Isolation: 1.5 kV RMS
- Serial Port Protection (ESD): 15 kV

Protocols and features

Network

LAN, VLANs, WAN, DHCP server, DHCP client, RIP, OSPF, DMVPN, VRRP, Port forwarding, DMZ support, SNMPv1,2c, DynDNS, NTP client, Firewall (NAT, PAT, IP filtering, MAC filtering), Serial-to-IP, Gateway Priorities, ModbusRTU-to-ModbusTCP, Radius, PPPoE client, static routes with metric

VPN

GRE, GRE Keepalive, OpenVPN, PPTP, L2TPv3, IPsec site to site tunnel IKEv1 (with main and aggressive mode) and IKEv2, certificate management for IPsec and OpenVPN authentication (CA certificate, private certificate, private key, CRL Certificate), preshared key files, Data integrity (HMAC-MD5, SHA-1, SHA-2), 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

Management

Web based configuration interface, Command Line Interface on serial console, SSH, SMS control, Detailed system log, Default reset, Firmware upload, Partial or full configuration Export/Import, Radius Authentication, Display settings, Timed actions

QMS **ISMS** **CE** certified
 ISO 9001:2015 ISO/IEC 27001:2013

Important note: Geneko reserves the right to make changes or improvements to any of the products without prior notice. Please contact the Sales Department regarding current product specifications.

Ordering information

Model	HSPA+	LTE	ADSL2+	RS-232	Eth ports	Wi-Fi
GWR362-2	●	—	—	●	2	Optional
GWR362-5	●	—	—	●	5	Optional
GWR-A362	●	—	●	●	1	Optional
GWR-A362-4	●	—	●	●	4	Optional
GWR462-2	●	●	—	●	2	Optional
GWR462-5	●	●	—	●	5	Optional
GWR-A462	●	●	●	●	1	Optional
GWR-A462-4	●	●	●	●	4	Optional

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