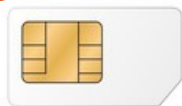![Geneko logo]

M2M-SIM
integrated
pre-configured

DE - EU - World

GWR
HIGH SPEED
CELLULAR ROUTER SERIES
HSPA+/LTE/DSL/WIFI

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 ARM Cortex-A8 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 WiFi 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 series is now improved with LCD display enabling user-friendly monitoring and network control. With a robust all-metal case and top quality components inside, durability of the product is guaranteed.

All of the GWR High Speed models can be tailored just for you – customization is an important part of our final product. Our engineers are top experts always willing to turn your set of demands into reliable products and solutions.

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.

• The whole set of advanced WAN settings allows the 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 secures 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), Chroot environment exposed to the customer, 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.

• Chroot environment enables users to create their own applications adding new functionality. Supports for Bash (shell) scripts, compiled C/C++ executables, LUA, Python, Perl

Technical specifications

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

LTE
800/900/1800/2100/2600 MHz (Sierra Wireless module)
800/850/900/1800/1900/2100/2600 MHz (Huawei module)

UMTS/HSPA+/DC-HSPA+
900/2100MHz MHz (Sierra Wireless module)
850/900/1900/2100 MHz (Huawei module)

UMTS/HSPA+
850/900/1900/2100 MHz (Huawei module)

GSM/GPRS/EDGE
900/1800/1900 MHz (Sierra Wireless module)
850/900/1800/1900 MHz or 850/900/1900/2100 MHz (Huawei modules)

Transfer rate
LTE DL: 100Mbps, UL: 50Mbps
HSPA+ DL: 21Mbps, UL: 5.76Mbps (Sierra Wireless module); DL: 42 or 14.4 Mbps, UL: 5.76Mbps (Huawei module, depending on the model)
EDGE DL: 236.8Kbps, UL: 236.8Kbps

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

Wi-Fi
Wireless Standards: 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 HSPA/HSPA+/LTE (depending on the router model)
• Dual SIM slots (Push – Push)
• GSM: 2xSMA female connectors (50 Ω) for external antennas
• 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

M2M SIM-Cards on request
M2M SIMs for DE, EU, World
highly secure data communication via private APNs, fixed IP
online SIM-Management platform

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
Select button

Power supply
12 VDC, 2A; Barrel connector

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

Housing
Plastic coated 0.8 mm steel sheet, optional DIN rail mounting kit

Dimensions and weight
• Dimensions (L x W x H): 160 mm x 100 mm x 31.5 mm
• Weight: up to 0.6 kg depending on a model

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, Display settings, Timed actions

Protocols and features

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

VPN
GRE, GRE Keepalive, IPsec tunnel client/server with main and aggressive mode, certificate management for tunnels (CA certificate, private certificate, private key), preshared key files, 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

QMS
ISO 9001:2008

CE certified

Ordering Information

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

-X at the end of Part Number denotes GSM module. Following manufacturers are available: S - Sierra Wireless, C – Cinterion (Gemalto), H – Huawei