Geneko

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.

Multiple broadband WAN access
Geneko GWR routers offer multiple connectivity options. Preferred interface could be used as a primary connection while there are still few alternatives for a backup. In such case, reliability of the connection is guaranteed. Available connections are: LTE, UMTS/HSPA+/DC-HSPA+, ADSL2+ and Wi-Fi.

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.

Cumulocity Cloud support
Automatic data transmission using Cumulocity cloud allows network settings (WAN, LAN DHCP) server-client and client-server communication, router configuration import and export, router firmware update, shell for sending commands to the device, monitoring and transferring measurements, events and alarms to the Cumulocity cloud.

Serial-to-IP feature
Connect, control and perform data acquisition from almost any device with serial RS232 port. ModbusRTU-or-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), telnet and SSH, Chroot environment exposed to the customer, Timed Actions, Connection Manager, detailed log, SMS control feature, standard based Simple Network Management Protocol (SNMP), partial and full configuration Export/Import and remote management and monitoring software provide wide range of management functionalities.

Technical specifications

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

LTE
800/900/1800/2100/2600 MHz (GenAir/Cinterion module)
800/850/900/1800/1900/2100/2600 MHz (Huawei module)

UMTS/HSPA+/DC-HSPA+
900/1800/2100 MHz (GenAir/Cinterion module)
850/900/1900/2100 MHz (Huawei modules)

UMTS/HSPA+
900/2100 MHz or 850/900/1900/2100 MHz (Huawei modules, depending on the model)

GSM/GPRS/EDGE
900/1800 MHz (GenAir/Cinterion module)
850/900/1800/1900 MHz (Huawei modules)

Transfer rate
LTE DL: 100Mbps, UL: 50Mbps
UMTS/HSPA+/DC-HSPA+ DL: 42Mbps, UL: 5.76Mbps (GenAir/Cinterion module); DL: 42 or 21.6 or 14.4Mbps, UL: 5.76Mbps (Huawei modules, depending on the model)
GSM/GPRS/EDGE DL: 384 Kbps, UL: 384 Kbps (GenAir/Cinterion module); DL: 236.8Kbps, UL: 236.8Kbps (Huawei modules)

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

Wi-Fi
• 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: 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

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

Environmental
• Operating temperature: -30° 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 the router 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
LAN, VLANs, WAN, DHCP server, DHCP client, RIP, VRRP, Port forwarding, DMZ support, SNMPv1,2c, DynDNS, NTP client, Firewall (NAT, PAT, IP filtering, MAC filtering), Serial-to-IP, Gateway Priorities, ModbusRTU-or-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, CRL Certificate), 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

MODEL	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: C – GenAir/Cinterion (Gemalto), H – Huawei

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