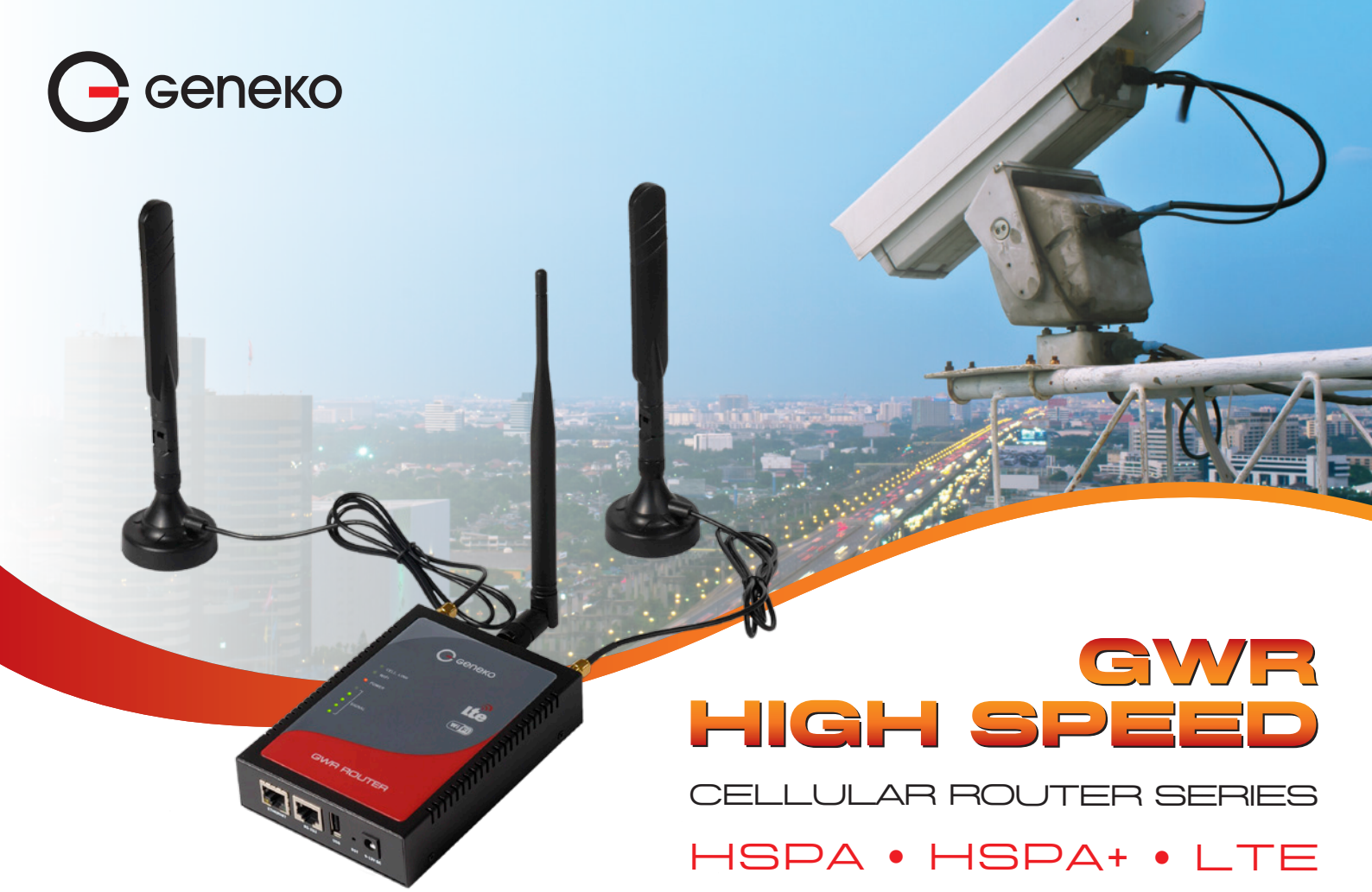
geneko



GWR HIGH SPEED

CELLULAR ROUTER SERIES

HSPA • HSPA+ • LTE

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.

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Technical specifications

RF characteristics

GPRS/EDGE/UMTS/HSPA/HSPA+

UMTS/HSDPA/HSUPA/HSPA+: Quad band: 850/900/1900/2100 MHz
GSM/GPRS/EDGE Quad band: 850/900/1800/1900 MHz
GPRS/EDGE 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: 85.6Kbps

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: 14.4Mbps, HSUPA UL: 5.76Mbps
UMTS DL: 384Kbps, UL: 384Kbps
EDGE DL: 236.8Kbps, UL: 236.8Kbps
GPRS DL: 85.6Kbps, UL: 85.6Kbps

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: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
- Frequency Band: 2.4GHz to 2.472GHz (1 to 13 channels)
- Rates: 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, 58.5, 65, 72.2Mbp
- 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)

Annex:	A/B/M
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 male 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; Detailed system log; Default reset; Firmware upload; Partial or full configuration Export/Import

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
GWR462-5-X	LTE Router, 1+4 Ethernet ports, 1 RS-232
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
GWR-A462-W-X	LTE Router, ADSL2+, 1 Ethernet port, Wi-Fi b/g/n, 1 RS-232
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
GWR-A462-4-X	LTE Router, ADSL2+, 4 Ethernet ports, 1 RS-232
GWR-A462-4W-X	LTE Router, ADSL2+, 4 Ethernet ports, Wi-Fi b/g/n, 1 RS-232

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

CE certified

PDS GWR-HS Rev.A Feb 14

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