



## GWG 3G/4G GATEWAY

Geneko GWG gateway is compact and cost effective communications solution that provides cellular capabilities for fixed and mobile applications such as data acquisition, smart metering, remote monitoring and management. GWG supports a variety of radio bands options on 2G, 3G and 4G cellular technologies. It is reliable solution thanks to high performance hardware platform and VPN/Security powerful options. When coupled with the rich embedded intelligence, it is the perfect choice for a broad set of M2M solutions.

GWG comes with numerous connectivity options and multiple configuration methods. It allows you to connect your existing Ethernet and serial devices using basic configuration. Besides Ethernet, RS-232 and RS-485/RS-422 serial ports, the device is equipped with USB port as well as 3 configurable digital input/outputs available on GPIO Connector, and digital input/output and analog input available on power connector. Its small size and easy installation makes it suitable for challenging and size-constrained applications. GWG gateway can be used on either desktop or mounted on a DIN rail.

### Features

- Compact, cost effective communication solution
- Cellular capabilities for M2M applications
- Support for remote Management and Monitoring
- Reliable, high performance solution
- Small-sized, convenient for easy installation and rapid deployment
- Multiple configuration methods, including web/serial console and Telnet
- Numerous connectivity options: Ethernet, RS-232, RS-485/RS-422, USB ports, 3/3+1/1 Digital I/O, Analog input

## Technical specifications

### Interfaces and connectors

#### RF Characteristics - 4G LTE model

##### LTE

- 800/900/1800/2600 MHz
- Transfer rate (max): 100 Mbps down, 50 Mbps up

##### UMTS/HSPA+/DC-HSPA+

- 900/1800/2100 MHz
- Transfer rate (max): 42 Mbps down, 5.76 Mbps up

##### GSM/GPRS/EDGE

- 900/1800 MHz
- Transfer rate (max): 236.8 Kbps down, 236.8 Kbps up

#### RF Characteristics - 3G HSPA+ model

##### UMTS/HSPA+

- 900/2100 MHz
- Transfer rate (max): 14.4 Mbps down, 5.76 Mbps up

##### GSM/GPRS/EDGE

- 900/1800 MHz
- Transfer rate (max): 384 Kbps down, 384 Kbps up

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

#### Host Interfaces

- 10/100 Base-T RJ45 Ethernet
- RS-232 serial port, Data Rate: 400 kbps
- RS-485/RS-422, 4 wires, Full-Duplex, Data Rate: 10 Mbps
- USB 2.0 Mini-AB connector
- 1 or 2 SMA antenna connectors (depending on the GWG model)

#### Digital Input/Output (available on GPIO Connector)

- Configurable I/O pins on dedicated connector
- Digital inputs: internal weak pull-up, active when pulled down to GND
- Digital outputs: open-drain, 4-28V, no over-current protection
- +5 VDC with 500 mA resettable fuse available on I/O connector

#### Digital Input/Output (available on Power Connector)

- Digital Inputs/Outputs: 1 output, 1 ignition sense input
- Digital Output: open-drain, 4-28V, 350 mA resettable fuse
- Ignition Sense Input: active when pulled up to 9-36 VDC
- Pinout: 1: +9..36VDC (also Analog Input), 2: GND, 3: Ignition Sense Input, 4: Digital Output

#### Analog Input (available on Power Connector)

- Analog Input Range: 9-36 VDC
- Pinout: 1: +9..36 VDC (also Analog Input), 2: GND, 3: Ignition Sense Input, 4: Digital Output

### Status LED

- Power
- Signal
- Network
- LAN (on Ethernet connector: Link, Activity)

## Ordering Information

Model	GPRS/EDGE	HSPA+	LTE	RS-232	RS-485/RS-422	Eth. Port	USB 2.0	Digital I/O on GPIO	Digital I/O on power c.	Analog input
GWG-30	●	●	—	●	●	●	●	3/3	1/1	1
GWG-40	●	●	●	●	●	●	●	3/3	1/1	1

### Protocols and Features

- Network: TCP/IP, UDP/IP, DNS, DHCP client, DHCP server
- Routing: NAT, Host Port Routing, Static route, PAT
- Application: SMS, Telnet/SSH, SMTP, SNMP, SNT
- Serial: Serial over Ethernet, Modbus (ASCII, RTU, Variable), Console on Serial port
- Events reporting
  - Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power
  - Report Types: Digital Output, SMS, SNMP Trap
- VPN/Security
  - IPsec, SSL, and GRE VPN Client
  - Up to 3 VPN Tunnels
  - AES, 3DES, Blowfish
  - IKE Encryption
  - OpenVPN, L2TP
- Other
  - Port Forwarding, DMZ, Port Filtering
  - Trusted IP (Local Gateway Function)
  - MAC Address Filtering
  - Advanced scripting functions

### Power

- Input: 9-36 VDC

### Dimensions and weight

- Dimensions (L x W x H): 101 x 88 x 30 mm
- Weight: 250 gr

### Environmental

- Operating Temperature: -20°C to +70°C
- Storage Temperature: -40°C to +85°C
- Relative Humidity: 5% to 95% (non-condensing)

### Housing

- Robust metal housing
- DIN rail mounting kit (optional)

### Certifications

**QMS**  
ISO 9001:2008

**CE** certified

**Important note:** Please refer to the latest version of Hardware Guide about the specifications. Geneko reserves the right to make changes or improvements to any of the products without prior notice.

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