

### Compact 4G LTE and WCDMA Cellular WiFi Gateway, Model GSF 8362Q



GSF 8362Q Gateway is a Cellular device that provides data transmission function by public LTE / WCDMA network.

It supports 1 \* RS232 (or RS485), 1 \* Ethernet LAN, 1 \* Ethernet LAN/WAN and 1 \* WiFi ports that can conveniently and transparently connect your existing serial and Ethernet devices to a cellular network

It has been widely used on M2M fields, such as self-service terminal, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.

### Stability and Reliability

- ✓ Multiple protection mechanism to ensure system stability, always keeping online
- ✓ Support Hardware and Software WDT
- ✓ Support Auto recovery mechanism, including online detect, auto redial when offline to make Gateway always online
- ✓ It uses Industrial 32-bits CPU with highly integrated and feature-rich IEEE 802.11n 2x2 2.4 GHz System-on-a-Chip (SoC) for advanced WLAN platforms.

Ethernet port	: 1.5KV magnetic isolation protection
Ethernet port	: 15KV ESD protection
RS232/RS485 port	: 15KV ESD protection
SIM/UIM port	: 15KV ESD protection
Power port	: Reverse-voltage and Overvoltage protection
Antenna port	: Lightening protection (optional)

### Communication and Convenience

- ✓ Support standard RS232 (or RS485), Ethernet & Wi-Fi port that can connect to Serial, Ethernet & WiFi devices directly
- ✓ Support standard WAN port & PPPoE protocol that can connect to ADSL directly
- ✓ Enter into communication state automatically when powered
- ✓ Support several work Modes
- ✓ Convenient configuration and maintenance interface WEB or CLI

### Performance rich Features

- ✓ Support Dual-link intelligent switching function between Primary card and Backup card. (Active/Passive)
- ✓ Support 2G/3G/4G/Static IP/DHCP/PPPoE WAN access methods
- ✓ Support Double link backup between Cellular and WAN (PPPoE, ADSL)
- ✓ Support VPN Client (PPTP, L2TP, IPSEC, OPENVPN, GRE)
- ✓ Support Remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS etc.,
- ✓ Support Local and Remote firmware upgrade, import and export configure file.
- ✓ Support NTP Client
- ✓ Support multiple DDNS providers
- ✓ Support MAC Address clone, PPPoE Server

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- ✓ Support WiFi 802.11 b/g/n, AP Client, Adhoc, Repeater Bridge mode
- ✓ WiFi support WEP, WPA, WPA2 encryption and MAC address filter
- ✓ Support multi-Trigger ways, SMS, Ring and Data
  
- ✓ Support APN/VPDN
- ✓ Support DHCP server and client, Firewall, SNAT, DNAT, DMZ host, URL block, QoS, Traffic statistics, Real time link speed statistics etc.
- ✓ Support SPI firewall, VPN traversal, access control, URL filtering, etc.
  
- ✓ Support Advanced Routing RIP, OSPF, BGP
- ✓ Support EoIP tunnels.
- ✓ Support Port Bridging.
- ✓ Support Packet filter
  
- ✓ Full protocol support, TCP/IP, UDP, ICMP, HTTP, HTTPS, TELNET, SNMP, SSHD, etc. SMTP, POP3, FTP is optional.
- ✓ Support Modbus RTU to Modbus TCP Conversion.
- ✓ Support TCP Server.
- ✓ Support Ethernet IP, ProfNet, SNMP, BACnet IP, DNP3.0 Protocols in Transparent Mode.
- ✓ Support HTTP and MQTT v3.1.1
- ✓ MODBUS RTU/Modbus TCP Master interface for field devices
- ✓ RTU port RS232/RS485 factory settable to interface to multiple Modbus slave devices
- ✓ Connect up to 31 Modbus devices, 1000 Modbus registers support
- ✓ Modbus slave devices configuration using WEB interface.
- ✓ Supports Modbus function codes 01, 02, 03 and 04
- ✓ Supports Modbus data types 16-bit Integer, Float, Swapped Float, 32-bit Integer and 32-bit Swapped Integer
- ✓ User can set Modbus Slave Device configurations e.g., Device ID, Holding Register addresses, Length etc. via WEB Interface
  
- ✓ Support Local Log storage.
- ✓ Support SMS through Telnet.
- ✓ Support NAT, MQTT

## Product Specification

### Cellular Specification

Standard and Band

- ✓ Support FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28
- ✓ FDD LTE 2600/2100/1800/900/800MHz, 700/1700/2100MHz (optional)
- ✓ Support TDD-LTE B38/B39/B40/B41
- ✓ TDD LTE 2300/2500/2600 MHz
- ✓ Support TD-SCDMA: B34, B39
- ✓ Support HSPA+/UMTS B1/B2/B5/B8
- ✓ WCDMA/HSPA+: Band 1, 8, TD-SCDMA: Band 34, 39
- ✓ Support EV-DO: BC0
- ✓ CDMA 1x: BC0
- ✓ Support EDGE/GPRS/GSM 850/900/1800/1900MHz

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- ✓ GPRS Terminal Device Class: Class B
- ✓ GPRS Coding Schemes CS1 to CS4

**Bandwidth**

- ✓ FDD-LTE : Downstream rate 150Mbps, uplink rate 50Mbps
- ✓ TD-LTE : Downstream rate 130Mbps, uplink rate 35Mbps
- ✓ TD-HSPA+ : Downstream rate 4.2Mbps, uplink rate 2.2Mbps
- ✓ DC-HSPA+ : Downstream rate 42Mbps, uplink rate 5.76 Mbps
- ✓ HSPA+ : Downstream rate 21Mbps, uplink rate 5.76 Mbps
- ✓ UMTS : 384Kbps

TX power : <23 dBm  
 RX sensitivity : < -97 dBm  
 Antennae gain: 3dB. Higher gains possible.

**WiFi Specs**

- ✓ IEEE802.11 b/g/n
- ✓ 54Mbps for 11b/g & 144 Mbps for 11n
- ✓ WEP, WPA, WPA2. WPS Optional

Tx Power : 15 +/- 2dbm  
 Sensitivity : <-72dBm@54Mbps  
 Antennae gain : 5dB

**Hardware System**



CPU Industrial 32bits CPU  
 FLASH 16MB (Extendable to 64MB)  
 DDR2 128MB (Extendable to 256MB)

**Interface type**

Ethernet 1 of 10/100 Mbps LAN and 1 \* WAN/LAN configurable Ethernet Port,  
 Auto MDI/X, 1.5KV magnetic isolation protection

Serial	1 of RS232 / RS485 port 15KV ESD protection
Data bits	5, 6, 7, 8
Stop bits	1, 1.5 (optional), 2
Parity	None, Even, Odd, (space, mark) (optional)
Baud rate	2400 to 115200 bps
Indicator	PWR, Online, LAN, LAN/WAN, Wi-Fi
Antenna	1 or 2 standard SMA Female Interface. 1 WiFi, SMA Male interface. Characteristic impedance 50 ohm for both
SIM/UIIM	Standard 3V/1.8V user card interface, 15KV ESD protection Support Dual SIM option. It supports Active Passive mode
Reset	Restore the Gateway to its original factory default settings

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**Power supply**

Standard Power DC 12V/1.5A, Power range: DC 5 to 36V  
 Connectors 2 Pin, 3.5mm Terminal Block, Reverse and Overvoltage protection

**Power consumption**

Standby 90 to 100 mA.@12VDC  
 Working 150 to 250mA. @12VDC

**Physical Characteristics**

Housing Metal. IP30 protection  
 Dimensions 93 \* 89 \* 24 mm  
 Weight 250g  
 Mounting Desktop. DIN Rail is optional Accessory

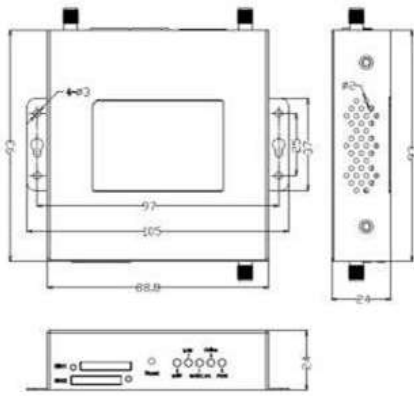
**Environmental Limits**

Operating Temperature -35 to +75°C  
 Storage Temperature -40 to +85°C  
 Operating Humidity 95% non-condensing  
 MTBF 50000 hours

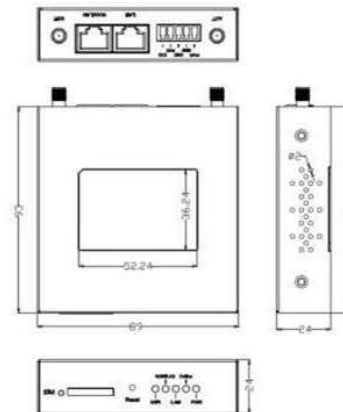
<b>Ordering Code</b>	<b>: Model GSF 8362Q FL 1/2 XXX</b>
GSF 8362Q	: Compact 4G Cellular Gateway 1 LAN, 1 LAN/WAN, 1 WiFi & 1 Serial port
FL	: FDD/TDD-LTE
1 / 2	: Single / Dual SIM
	: (Dual SIM supports only Active Passive mode)
XXX	: RS232 or RS485

CE Approved

**Dimensions**



Wall Mount Style Router Dimension



DIN Rail Style Router Dimension