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Compact 4G LTE Secured Cellular WiFi IoT Router, Model GSF 8362Q 485 444



GSF8362Q XXX is a IoT Router that provides data transmission function by public LTE network. It supports 12 IO's, 1 * RS485, 1 * LAN, 1 * LAN/WAN and 1 * WiFi ports that can securely, over VPN, send the data on MQTT/HTTP/HTTPS over cloud.

It has been widely used in Intelligent Transportation, Smart Grid, Industrial Automation, Telemetry, Banking Security, Water, Dam & Irrigation projects and so on

Product Specification : Hardware

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

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 RS485 port
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

IO's 12. (4*AI, 4*DI, 4*DO)

Analog Inputs
Number of Inputs 4
Connector 5 Pin 3.5mm Terminal Block
Analog Input 4-20mA
Resolution 10 bits
Input impedance 100 Ω

Digital Inputs
Number of inputs 4
Connector 5 Pin 3.5mm Terminal Block
Digital Input External Dry (Potential free)/Wet contact factory settable
Isolation voltage 3750Vrms

Wet contact
Logic level 0 24 VDC
Logic level 1 0 VDC

External Dry contact (Potential free)
Logic level 0 Close to GND
Logic level 1 Open

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Digital Outputs
Number of inputs 4
Connector 2 Pin 3.5mm 4 Terminal Block
Digital Output Relay outputs
Relay coil voltage 5V
Contact rating 24VDC @ 10A, 230VAC @ 5A

Cellular Specification

Standard and Band

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

- ✓ 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

Antenna 1 or 2 standard SMA Female Interface.
1 WiFi, SMA Male interface. Characteristic impedance 50Ω for both
SIM/UIIM Standard 3V/1.8V user card interface, 15KV ESD protection
Dual SIM option supporting Active Passive mode
Reset Restore the Router to its original factory default settings

Product Specification : Software

- ✓ Multiple protection mechanism to ensure system is always kept online
- ✓ Hardware and Software WDT
- ✓ Auto recovery mechanism e.g. Online detect, Auto redial when offline to make Router always Online
- ✓ Enter into communication state automatically when powered

- ✓ Dual-link Active/Passive switching function
- ✓ 4G/Static IP/DHCP WAN access methods
- ✓ Double link backup between Cellular and WAN (PPPoE, ADSL)

- ✓ VPN Client (PPTP, L2TP, IPSEC, OPENVPN, GRE)
- ✓ Remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS etc.,
- ✓ Local and Remote firmware upgrade, import and export configure file.
- ✓ NTP Client
- ✓ Multiple DDNS providers
- ✓ MAC Address clone, PPPoE Server

- ✓ WiFi 802.11 b/g/n, AP, Client, Adhoc, Repeater Bridge mode
- ✓ WiFi support WEP, WPA, WPA2 encryption and MAC address filter

- ✓ APN/VPDN
- ✓ DHCP server and client, Firewall, SNAT, DNAT, DMZ host, URL block, QoS, Traffic statistics, Real time link speed statistics etc.
- ✓ SPI firewall, VPN traversal, access control, URL filtering, etc.

- ✓ RIP, OSPF, BGP protocols
- ✓ EoIP tunnels.
- ✓ Port Bridging.
- ✓ Packet filter

- ✓ TCP/IP Server or Client, UDP Client, ICMP, HTTP, HTTPS, TELNET, SNMP, SSHD, etc. SMTP, POP3, FTP is optional.
- ✓ Modbus RTU to Modbus TCP Conversion.
- ✓ Ethernet IP, ProfNet, SNMP, BACnet IP, DNP3.0 Protocols in Transparent Mode.

- ✓ HTTP, HTTPS and MQTT v3.1.1
- ✓ MODBUS RTU/Modbus TCP Master interface for field devices
- ✓ RS485 Port connects up to 31 Modbus devices, 1000 Modbus registers supported
- ✓ 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

- ✓ Multi-Trigger ways, SMS, Ring and Data
- ✓ Local Log storage.
- ✓ SMS through Telnet.

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Power supply

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

Power consumption

Standby 120 to 150 mA. @12VDC
Working 170 to 330 mA. @12VDC

Protection

Ethernet port : 1.5KV magnetic isolation & 15KV ESD protection
RS485 port : 15KV ESD protection
 : 800W Surge Protection
SIM/UIM port : 15KV ESD protection

Power port : Reverse-voltage and Overvoltage protection
Antenna port : Lightening protection (optional)

Physical Characteristics

Housing Metal. IP30 protection
Dimensions 93 * 93 * 52 mm
Weight 500g
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 500,000 hours

Ordering Code : Model GSF 8362Q 485 444

GSF 8362Q : Compact 4G Cellular Router
 1 LAN, 1 LAN/WAN, 1 WiFi & 1 Serial port
 : FDD/TDD LTE, Dual SIM - Active Passive mode
485 : RS485
444 : 4*AI, 4*DI, 4*DO