

4G LTE & WCDMA Dual SIM Cellular WiFi Gateway, Model GSF 8364

General



GSF 8364 LTE&WCDMA Gateway is a Cellular device that provides data transmission function by public LTE / WCDMA network
It uses Industrial 32-bits CPU and embedded Real Time Operating system
It supports RS232 (or RS485/RS422), Ethernet and 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, Weather, and so on.
Support Modbus RTU to Modbus TCP & vice versa Conversion.

Product Feature

- ✓ Designed for Industrial Application
- ✓ High-powered Industrial Cellular module
- ✓ High-powered Industrial 32bits CPU
- ✓ Support low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode (optional)
- ✓ Support IPv4 & IPv6 on LAN & WAN
- ✓ Metal Housing
- ✓ IP30 Ingress Protection
- ✓ Wide Power range, DC 5 to 36V

Reliability

Support Hardware and Software WDT
Support Auto recovery mechanism, including Online detect, Auto redial when offline to make Gateway always Online

Ethernet port	: 1.5KV magnetic isolation protection
RS232/RS485/RS422 port	: 15KV ESD protection
SIM/UIM port	: 15KV ESD protection
Power port	: Reverse-voltage and Overvoltage protection
Antenna port	: Lightning protection (optional)

Standard and Convenience

Support Dual SIM, Active / Passive Mode
Support standard RS232 (or RS485/RS422), Ethernet & WiFi 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
Provide management software for remote management
Support several work modes
Convenient configuration and maintenance interface WEB or CLI

High-performance

Support Dual SIM switching function
Support 2G/3G/4G/Static IP/DHCP/L2TP, PPTP, PPOE WAN access methods
Support double link backup between LTE / WCDMA and WAN (PPPOE, ADSL) (optional)

Support VPN Client & Server (PPTP, L2TP, OPENVPN, IPSEC and GRE)
Support IPSEC Active/Standby and Active/Active server connection.
Supports IKE v1 and IKE v2 for IPSEC encryption
Support 15 concurrent IPSEC tunnels
Support Local and Remote firmware upgrade, import and export configure file.

Support NTP, RTC embedded
Support multiple DDNS providers
Support MAC Address clone, PPPoE Server
Support APN/VPDN
Support IP Application such as Ping, DHCP Server and Client, Firewall, UPNP, ALG, SNAT & DNAT, DMZ host, URL block, QoS, Traffic statistics, Real time link speed statistics etc
Full protocol support, TCP/IP, UDP, ICMP, SMTP, HTTP, HTTPS, POP3, OICQ, TELNET, FTP, SNMP, SSHD, etc. Support Modbus RTU to Modbus TCP & vice versa Conversion.

Support WiFi 802.11 b/g/n, AP Client, Concurrent clients, Adhoc, Repeater Bridge mode
WiFi support WEP, WPA, 4 SSID, WPA2, WPA PSK, WPA2 PSK and MAC address filter
Support link disconnection when timeout
Schedule Reboot, Schedule Online and Offline, etc.

Support VLAN, Loopback configuration
Support System log (Web, Console, net)
Support LAN Port configuration with different IP address.
Monitoring of VPN, WAN, Wi-Fi, LAN, Bandwidth, Daily data used in WEB.

Support Advanced Routing features RIP, OSPF, BGP.
Support EoIP tunnels.
Support Port Bridging.
Support Packet filter.

Product Specification

Cellular Specification

Cellular Module Industrial Cellular module

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

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- ✓ Support EDGE/GPRS/GSM 850/900/1800/1900MHz
- ✓ GPRS Terminal Device Class: Class B
- ✓ GPRS Coding Schemes CS1 to CS4

Bandwidth

LTE FDD : 100Mbps (DL), 50Mbps (UL)
DC-HSPA+ : 42Mbps (DL) 5.76Mbps (UL)
HSPA+ : 21Mbps (DL) 5.76Mbps (UL)
HSUPA : 5.76Mbps (UL)
HSDPA : 7.2Mbps (DL)
UMTS : 384Kbps (DL/UL)

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

WiFi Specs

IEEE802.11 b/g/n, 54Mbps for 11b/g & 150 Mbps for 11n
WEP, WPA, WPA2, WPA PSK, WPA2 PSK
Tx Power : 20dbm for 11n, 24 dbm for 11g & 26 db for 11b
Antennae gain : 5dB

Hardware System

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

Interface type

Ethernet 1 * 10/100 Mbps LAN / WAN port, 4 * 10/100Mbps Ethernet Ports,
Auto MDI/X
1.5KV magnetic isolation protection
Serial 1 of RS232 (or RS485/RS422) 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
LED Indicator PWR, SYS, SIM, Online, ETH, Signal Strength
Antenna Double Cellular & 1 WiFi, characteristic impedance 50 ohm
SIM/UIM Standard 3V/1.8V user card interface, 15KV ESD protection
Power Standard 3-PIN Power Jack, Reverse and Overvoltage protection
Reset Restore the Gateway to its original factory default settings through Push
button & GUI

Power supply

Standard Power DC 12V/1.5A
Power range DC 5 to 36V

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Power consumption

Standby 280 to 330 mA@12VDC
Working 325 to 562 mA@12VDC
Timing shutdown 2.57 to 4.2 mA@12VDC

Physical Characteristics

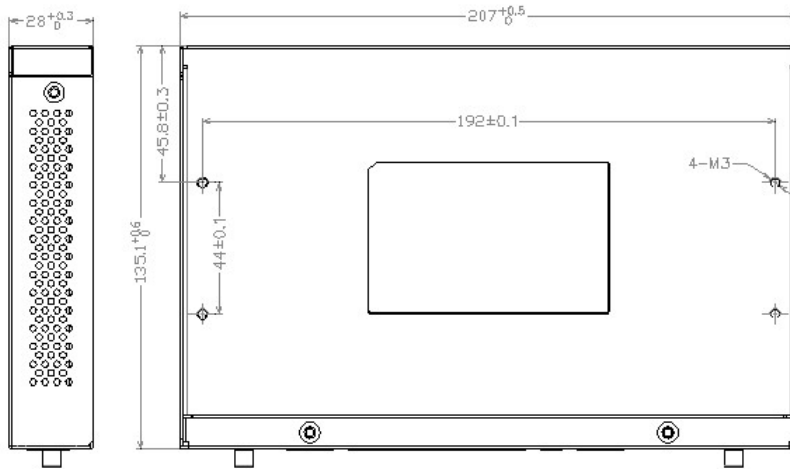
Housing Metal
Ingress Protection IP30
Dimensions 207x135x28 mm
Weight 790g

Environmental Limits

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

Approvals tested for :
CE/FCC

Dimensions



Ordering Code : Model GSF 8364 XXX
GSF 8364 : 4G Dual SIM Gateway, Active/Passive mode
with 1 LAN / WAN, 4 LAN, 1 WiFi & 1 Serial port
XXX : RS232 or RS485 for Serial port

