

## 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)
- ✓ 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

San Telequip (P) Ltd.,  
504/505 Deron Heights, Baner Road, Baner  
Pune 411045, Mah, India  
Phone : +91-20-27293455, 9764027070, 8390069393  
email : [info@santelequip.com](mailto:info@santelequip.com)



## 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 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

San Telequip (P) Ltd.,  
504/505 Deron Heights, Baner Road, Baner  
Pune 411045, Mah, India  
Phone : +91-20-27293455, 9764027070, 8390069393  
email : [info@santelequip.com](mailto:info@santelequip.com)



- ✓ 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

San Telequip (P) Ltd.,  
504/505 Deron Heights, Baner Road, Baner  
Pune 411045, Mah, India  
Phone : +91-20-27293455, 9764027070, 8390069393  
email : [info@santelequip.com](mailto:info@santelequip.com)



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

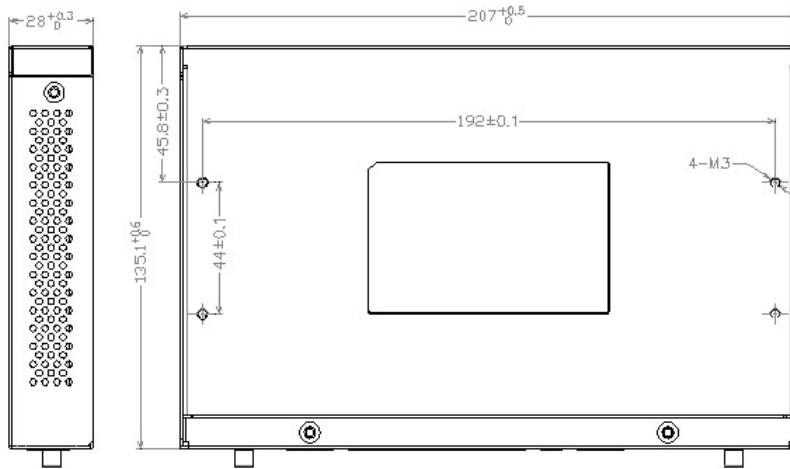
Housing	Metal
Ingress Protection	IP30
Dimensions	207x135x28 mm
Weight	790g

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**



<b>Ordering Code</b>	<b>: Model GSF 8364 XXX</b>
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

