

# G510 GSM/GPRS Module

Perfect Wireless Connection



Quad-band



GPRS Class 10



Internal  
TCP/IP



Extended  
Temperature Range



Approved



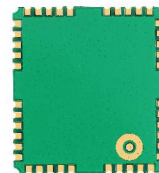
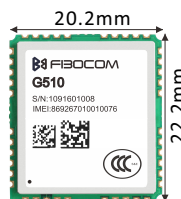
RoHS

The G5-family is the latest GSM/GPRS module launched by Fibocom. It adopts one of the most advanced platforms in the industry and the entire baseband processing speed has increased by four times, reaching the main frequency of 208M. On the basis of the superior performance of G6-family and G5-family has realized innovations on numerous technological fronts and are extremely competitive.

The G510 is the smallest wireless module with LCC package and supports GSM/GPRS 850/900/ 1800/1900MHz. It is extremely small in size, has low power consumption and powerful EMC and ESD performance, and has a built-in protocol stack and three serial ports, providing perfect voice call functions and high speed data transmission for customers.

The G510 module meets industrial-grade demands and has passed seven rounds of 88 hours ALT tests in severe environments. The production and manufacturing fully conforms to ISO/TS 16949. It can also adapt to severe working environments with high temperatures, high humidity, and electromagnetic interference.

It features an extremely compact design, superior performance, and excellent cost effectiveness. It is well suited for diverse applications with high demands in M2M technology field, bringing the best experience to customers and terminal users.



## Features

- Quad-band: 850/1900MHz  
900/1800MHz
- Ultra Low Consumption: 1.0mA@sleep mode
- Built-in TCP/IP protocol stack
- LCC package, 42pin
- Operating Voltage: 3.3~4.5V
- Support three serial ports
- Sensibility: -109dBm(850/900MHz)  
-108dBm(1800/1900MHz)
- Size: 20.2 x 22.2 x 2.5mm
- Weight: 2.5gram
- Operating Temperature: -40~+85°C
- Storage Temperature: -40~+85°C

# G510 GSM/GPRS Module

Perfect Wireless Connection

## G510 GSM/GPRS Module Technical Specifications

### Product Features

#### Supported Bands

- Quad Band
  - 900/1800MHz
  - 850/1900MHz

#### Physical

- Size: 20.2 x 22.2 x 2.5mm
- Weight: 2.5 gram

#### Environmental

- Operating temperature: -40~ +85°C

### Performances

#### Operating Voltage

- Voltage: 3.5~4.5V

#### Current Consumption

- 1.0mA@sleep mode(DRX9)

#### TX Power

- 800/900MHz class 4(2W)
- 1800/1900MHz class 1(1W)

#### RX Sensitivity

- -109dBm(850/900MHz)
- -108dBm(1800/1900MHz)

### Interfaces

#### Interfaces

- LCC 42pin

#### Sim Card

- 1.8V/3.0V

#### Connectivity

- UART: BR from 2400 to 460800

### Data

#### General

- Internal TCP/UDP

#### GPRS

- Multi-slot class 10 (4 Down; 2 Up; 5 Total)
- Max BR Downlink 85.6 Kbps
- Coding Scheme CS1-CS4

#### MUX

- Basic Mode

#### SMS

- MO/MT Text and PDU modes
- Cell broadcast

### Voice Features

- Two channels balanced analog audio
- Vocoders EFR/HR/FR/AMR
- DTMF TX and FX
- Audio Control
  - Echo suppression
  - Noise suppression
  - Side tone
  - Gain control

### Customized Features

- eCall
- OpenCPU
- Record
- Watchdog inside
- Support OOK

### Control/Status Indications

- Power on/off
- LPG Indicator

### GSM Supplementary Service

- Call forwarding
- Call hold;waiting;multparty
- Call diverting
- Call barring

### Character Set

- IRA
- UCS2
- GSM
- HEX

### AT Command Set

- GSM 07.05
- GSM 07.07
- GSM 07.10
- Embedded TCP/IP Stack

### Accessories

- Hardware User Manual
- AT Command User Manual
- Evaluation Kit
- Evaluation Kit User Manual
- Evaluation Kit Schematics
- Release Notes
- Fibocom\_upgrade
- Fibo\_Center (for Windows XP)

### Regulatory and Approvals

- SRRC/CCC/NAL
- CE/GCF



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Subject to changes in technology, design and availability

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