

G510 GSM/GPRS Module

Perfect Wireless Connection



Quad-band



GPRS Class 10



Internal
TCP/IP



Extended
Temperature Range



Approved



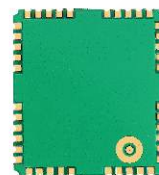
RoHS

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
- 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

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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

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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