

GSM Module

MG2810



LGA Form Factor



Easy to integrate



Ultra Compact



Embedded FTP Stack



Quad-band



-40°C to +85°C



Embedded TCP/UDP Stack



UART



Analog Voice



AT Command



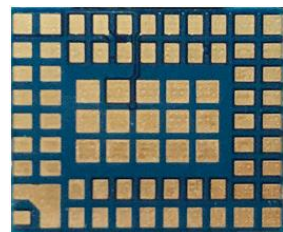
I2C

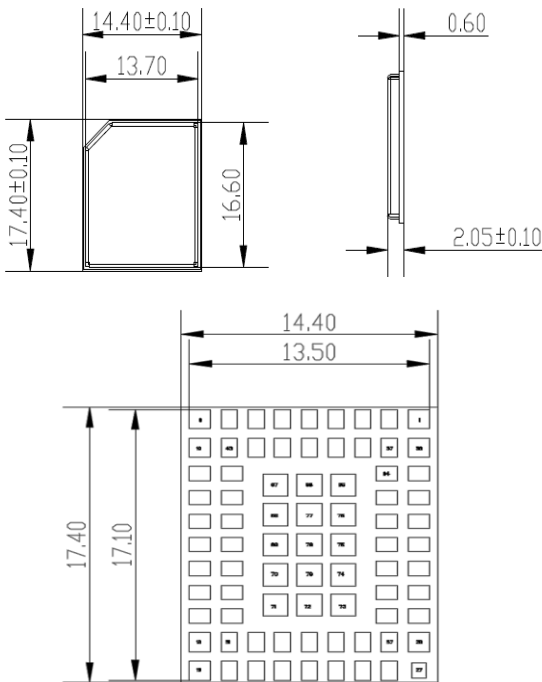
For M2M Applications

MG2810 is a GSM/GPRS module with LGA interface, and support GSM850/900/1800/1900MHz for globe market.

The module is very small, the dimension is 17.4*14.4*2.05 mm. Its super performance and compact design make it is suitable for design requirements of various products.

Through its 79 pin pads and widely applied interfaces can support voice, SMS, and data function.





General Features

- ❑ LGA Form Factor (79pin)
- ❑ Dimensions: 17.4 mm × 14.4 mm × 2.05mm
- ❑ Weight: approx. 1grams
- ❑ Frequency Band:
 - GSM 850/ 900/1800/1900

Electrical & Sensitivity

- ❑ Transmit Power:
 - GSM850/GSM900: 33 ± 2dBm (Class 4)
 - DCS1800/PCS1900: 30 ± 2dBm(Class 1)
- ❑ Receiving sensitivity:
 - GSM850/GSM900: -108dBm
 - DCS1800/PCS1900: -108dBm
- ❑ Power Supply :
 - 3.4V~ 4.2V (3.8V is recommended)
- ❑ Power Consumption:
 - Off mode: 70uA (Typical)
 - Sleep mode : 2.0 mA (Typical)
 - Idle mode: 10.6mA (Typical)
 - Peak current : 2A (Max. TX power)

Voice

- ❑ Half rate (HR)
- ❑ Full rate (FR)
- ❑ Text and PDU
- ❑ Enhanced full rate (EFR)
- ❑ Auto-negotiation multi-code rate (AMR)

Data Features

- ❑ GPRS
 - Uplink 42.8kbps / Downlink 85.6kbps
 - GPRS Multi-slot Class 10
 - GPRS Mobile Station Class B

SMS Features

- ❑ Point to point MO and MT
- ❑ SMS status report
- ❑ Text and PDU

Interfaces

- ❑ 2 analog voice channels
- ❑ 2 UARTs
- ❑ 1 SIM interface (3V/ 1.8V)
- ❑ I2C
- ❑ ADC
- ❑ GPIO
- ❑ RF antenna

Software Features

- ❑ Support embedded TCP & UDP protocols
- ❑ Support embedded FTP protocols
- ❑ Control Via AT Commands
- ❑ DTMF
- ❑ SMS

Driver & Tools

- ❑ Diag-log Tool for Windows
- ❑ Firmware Update Tool

Environmental

- ❑ Working temperature: -40~+85°C
- ❑ Storage temperature: -40 ~+85 °C
- ❑ Humidity: 5% ~ 95%

Approvals & Certifications

- ❑ CCC
- ❑ CE
- ❑ Rohs

* Stands for Optional.