

# GSM A9 Module



## Description

Ai Thinker A9 GPRS Series Module can be used in a wide range of IoT applications and is ideal for IoT applications for home automation, industrial wireless control, wearable electronics, wireless location sensing devices, wireless location system signals, and other IoT applications.

The A9 is a complete quad-band GSM / GPRS module in a compact design SMD package. Its stable performance, the compact appearance, cost-effective, could meet the diverse needs of customers.

## Features

- Supports GSM/ GPRS frequency: 800/ 900/ 1800/ 1900 MHz.
- Supports voice calls and SMS messages.
- The data rate is 85.6 Kbps
- Supports firmware upgrade via serial port
- Support PBCCH
- Supports 3 serial ports, one download serial port, one AT command port.
- Working temperature: -30 -80
- Working voltage: 3.5v 4.2v (its best to power by 4v)
- Power voltage: >3.5 Volts
- Low power consumption:
- Sensitivity GPIO level: 2.8 volts

## Specifications

- Model Name: A9
- Package: SMD54
- Frequency: 850/900/1800/1900MHz
- GPRS Multi-slot: Class 12
- GPRS Mobile Station: Class B
- Power supply: 3.5~4.2V typical value 4.0V

- Current: 1.14mA@DRX=5; 1.03mA@DRX=9
- AT command: 3GPP TS 27.007, 27.005
- GPRS Class 12: Max 85.6kbps (Up & Down)
- Coding scheme: CS 1,2, 3, 4
- PBCCH: support
- SIM Card: 1.8V/3V
- UART: 3pcs (including firmware upgrade serial port) baud rate support 2400~1843200bps, default 115200bps
- Antenna: Pad
- Communication Interface: I2C, USB, UART, SDMMC, GPIO, ADC
- Working Temperature: -20C ~ +75C
- Dimensions: 19.2 x 18 x 2.5mm

*Made in China*