Ai-Thinker A9G GSM/GPRS+GPS/BDS Development Board – Powerful IoT & GPS Solution

The **Ai-Thinker A9G GSM/GPRS+GPS/BDS Development Board** is a compact, feature-rich development platform designed for engineers, students, makers, and IoT enthusiasts who want to create wireless communication and location-based applications with ease. This module combines GSM/GPRS connectivity with GPS and BDS (BeiDou Navigation Satellite System) positioning, making it an excellent choice for real-time tracking, data logging, and remote control projects.

Whether you're building a GPS tracker, smart vehicle monitoring system, IoT sensor node, or any project that requires both cellular communication and global positioning, the **A9G development board** offers a cost-effective and reliable solution.


GPRS+GPS
SN: A06V02201603080
Quad Band
850/1800
900/1900
A9G
VBAT GND

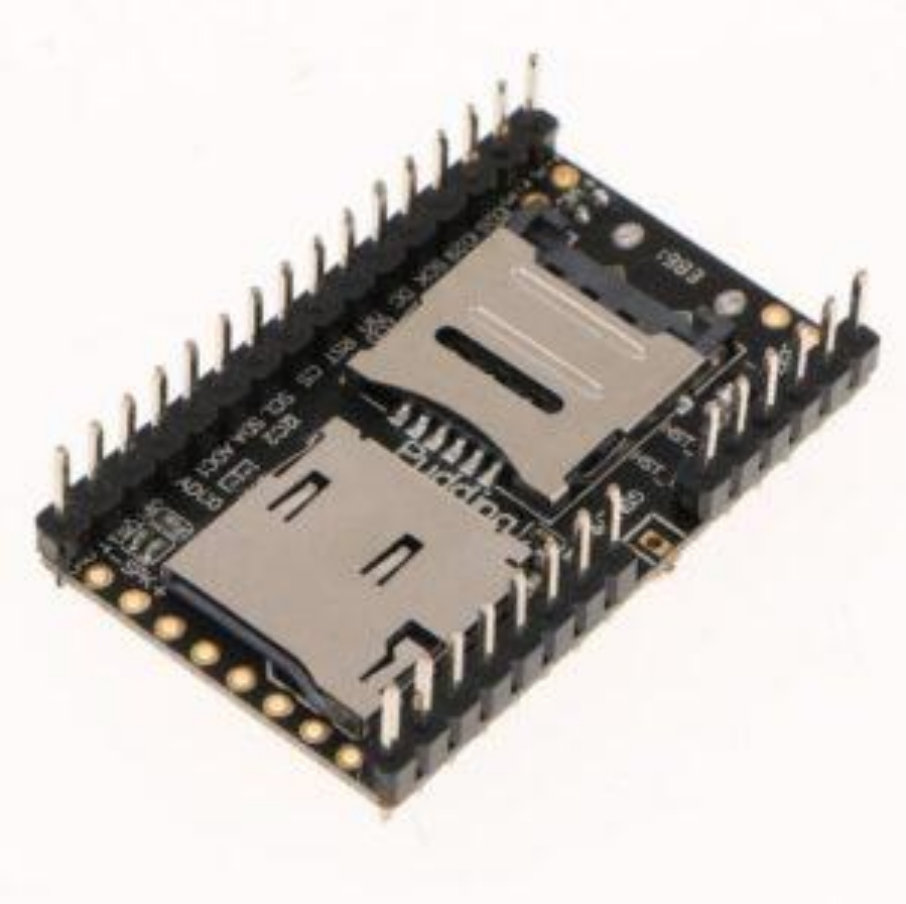
Key Features of Ai-Thinker A9G GSM/GPRS+GPS/BDS Development Board

1. **Dual Functionality – GSM/GPRS + GPS/BDS**
    - The A9G integrates both GSM/GPRS for data communication and GPS/BDS for accurate positioning.
    - Supports 2G quad-band (850/900/1800/1900 MHz), making it globally compatible.
    - Provides real-time GPS tracking with high precision for navigation and IoT applications.
2. **Compact and Lightweight Design**
    - Small form factor, ideal for portable devices.
    - Perfect for integration into DIY projects, smart devices, and embedded applications.
3. **Low Power Consumption**
    - Designed with IoT in mind, it consumes minimal energy during standby and active modes.
    - Great for battery-powered devices like trackers and remote sensors.
4. **Multiple Interfaces for Development**
    - UART, GPIO, ADC, PWM, and I²C interfaces available.
    - Allows easy connection with sensors, microcontrollers, and external modules.
5. **Onboard Antennas and Expansion**
    - Supports external GSM and GPS antennas for better signal reception.
    - Expansion pins for flexible prototyping and customization.
6. **Wide Range of Applications**
    - GPS trackers for vehicles, pets, and assets.
    - Smart agriculture and environmental monitoring.
    - IoT smart home projects.
    - Remote data collection and reporting systems.

Why Choose Ai-Thinker A9G Development Board?

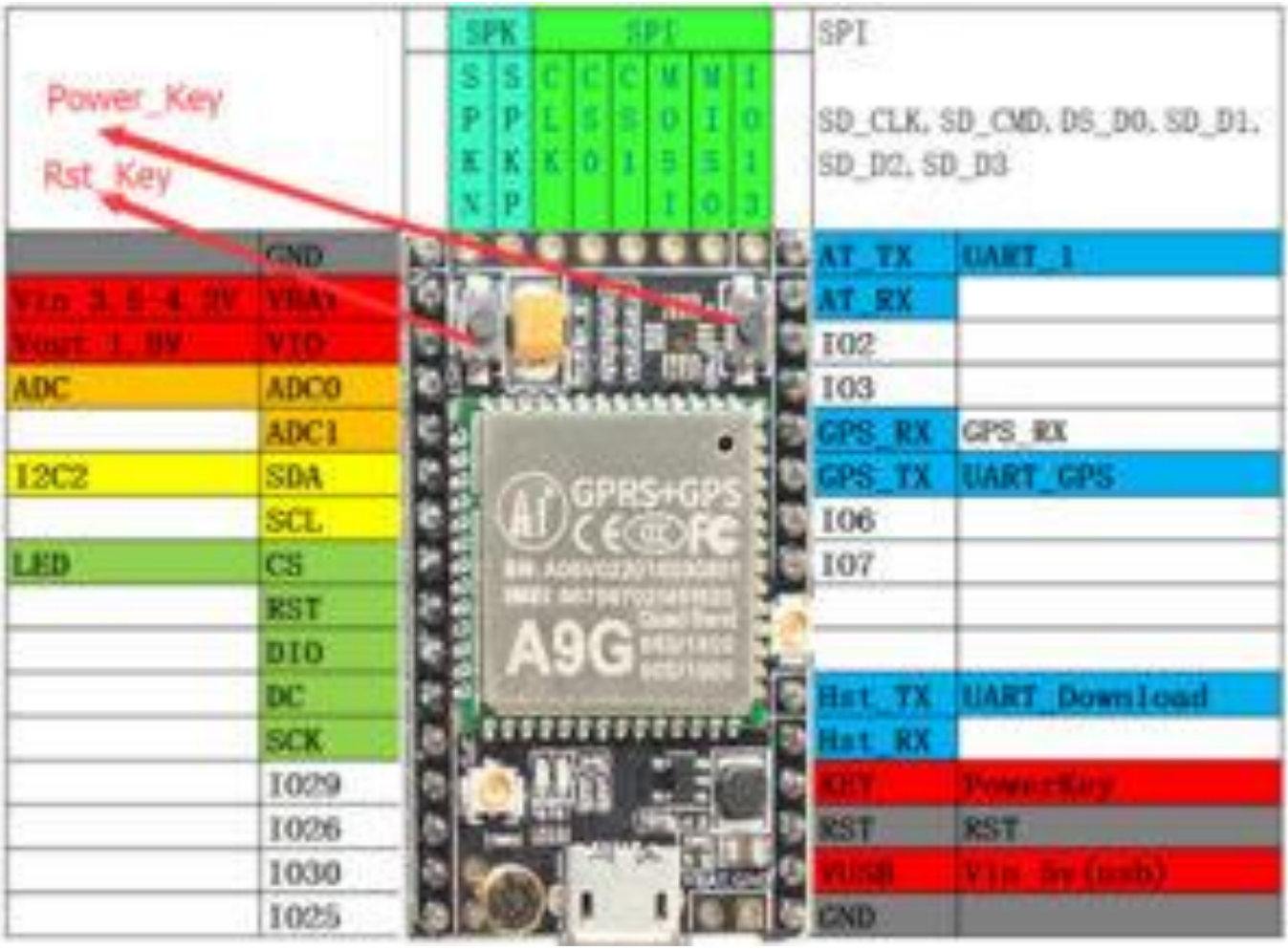
The **A9G board** stands out due to its **integration of GSM/GPRS connectivity with GPS/BDS navigation**, giving developers a single solution for communication and tracking. Unlike traditional modules that require separate GSM and GPS chips, this compact development board reduces cost, simplifies design, and saves space.

- **Reliability**: Stable communication with strong GPS signal acquisition.
- **Flexibility**: Multiple I/O options to connect to Arduino, ESP32, Raspberry Pi, and other development boards.
- **Cost-Effective**: Affordable compared to similar modules with dual GSM+GPS functionality.
- **Community Support**: Widely used in IoT projects, so finding tutorials, code examples, and libraries is easy.



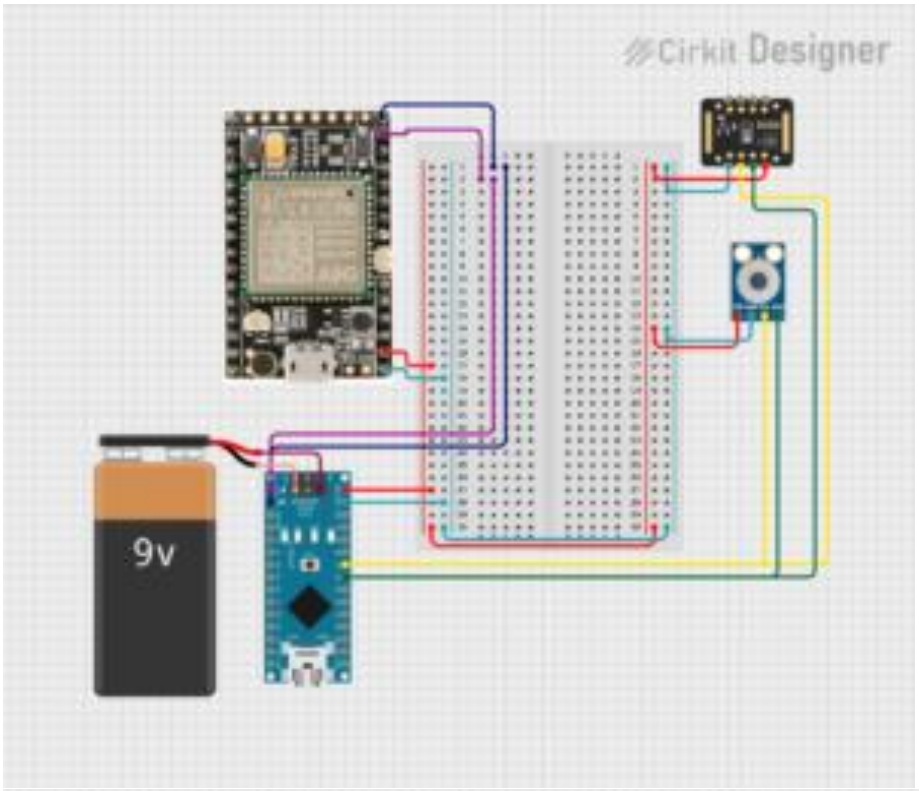
Technical Specifications

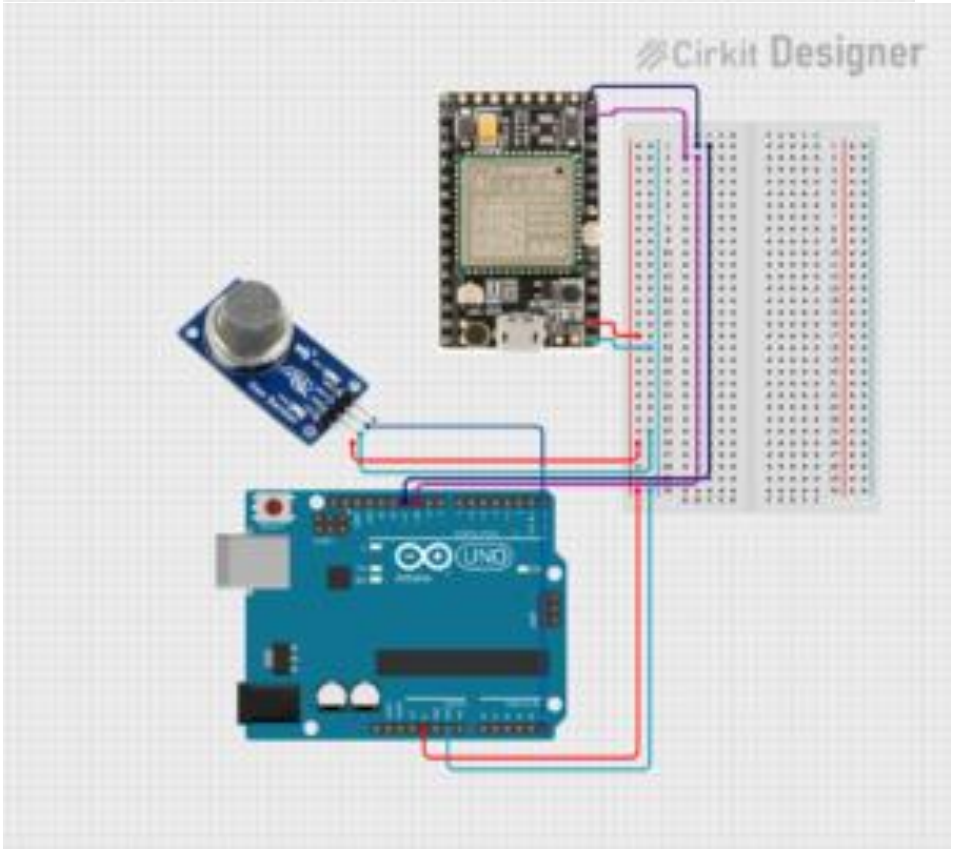
- **Module**: Ai-Thinker A9G
- **Network**: GSM/GPRS, Quad-Band (850/900/1800/1900 MHz)
- **Positioning**: GPS + BDS support
- **Power Supply**: 3.4V – 4.2V (typical 3.8V)
- **Interfaces**: UART, I²C, ADC, GPIO, PWM
- **Antenna**: External GSM and GPS antenna support
- **Working Temperature**: -40°C to +85°C
- **Dimensions**: Compact design for embedded applications



Applications of Ai-Thinker A9G GSM/GPRS+GPS/BDS Board

1. **GPS Tracking Systems**
   - Vehicle tracking for fleet management.
   - Asset tracking for logistics and supply chain.
   - Personal GPS trackers for safety and outdoor activities.
2. **Smart IoT Projects**
   - Remote weather stations with real-time updates.
   - Smart agriculture sensors with location reporting.
   - Smart city applications like bike or scooter sharing.
3. **Communication Systems**
   - Remote data monitoring via GSM network.
   - IoT devices with SMS or GPRS connectivity.
   - Emergency alert systems with location data.


Cirkit Designer
9v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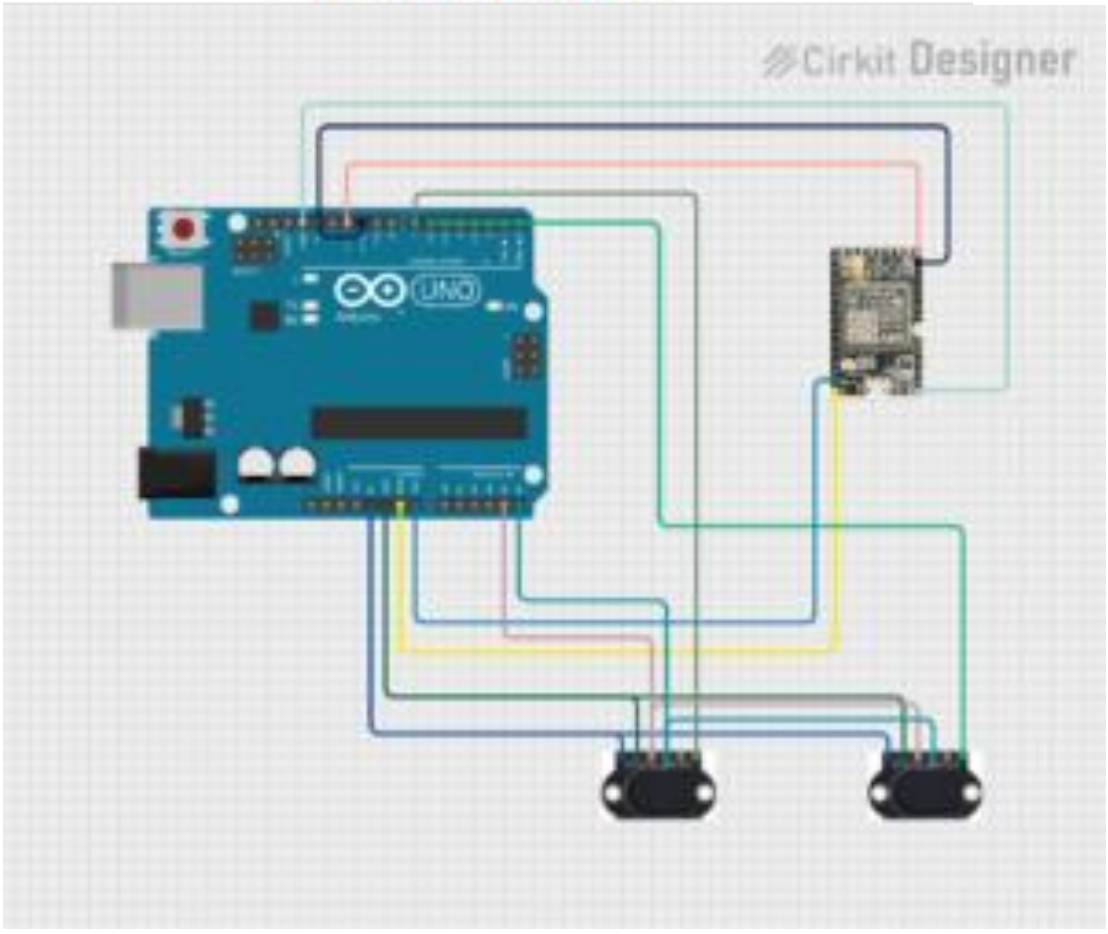
UNO


Spy GPS Tracker and Microphone
With Google Map API
https://store.wicard.net
5V Power
470
470
ARDUINO
UNO REV3
AI Thinker A9G
Arduino AVR Boards Support
(UNO/NANO)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Conclusion

The **Ai-Thinker A9G GSM/GPRS+GPS/BDS Development Board** is a powerful and affordable platform that bridges the gap between cellular communication and satellite-based positioning. Its versatility makes it suitable for a wide range of applications, from **GPS trackers and IoT projects to smart monitoring systems**.

If you're looking for a compact, energy-efficient, and cost-effective solution for **real-time tracking and GSM communication**, the **Ai-Thinker A9G Development Board** is the perfect choice.

☞ Order your **Ai-Thinker A9G GSM/GPRS+GPS/BDS Development Board** today and start building your next IoT innovation!