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Vikye A9G

Vikye A9G Development Board User Manual

GSM/GPRS and GPS/BDS Module Wireless Data Transmission and Positioning Board

INTRODUCTION

This manual provides detailed instructions for the Vikye A9G Development Board, a versatile module designed for validating basic communication and peripheral functions of the A9G module. It integrates GSM/GPRS for networking communications and GPS/BDS for dual-mode positioning capabilities, making it suitable for a wide range of prototyping and development projects.

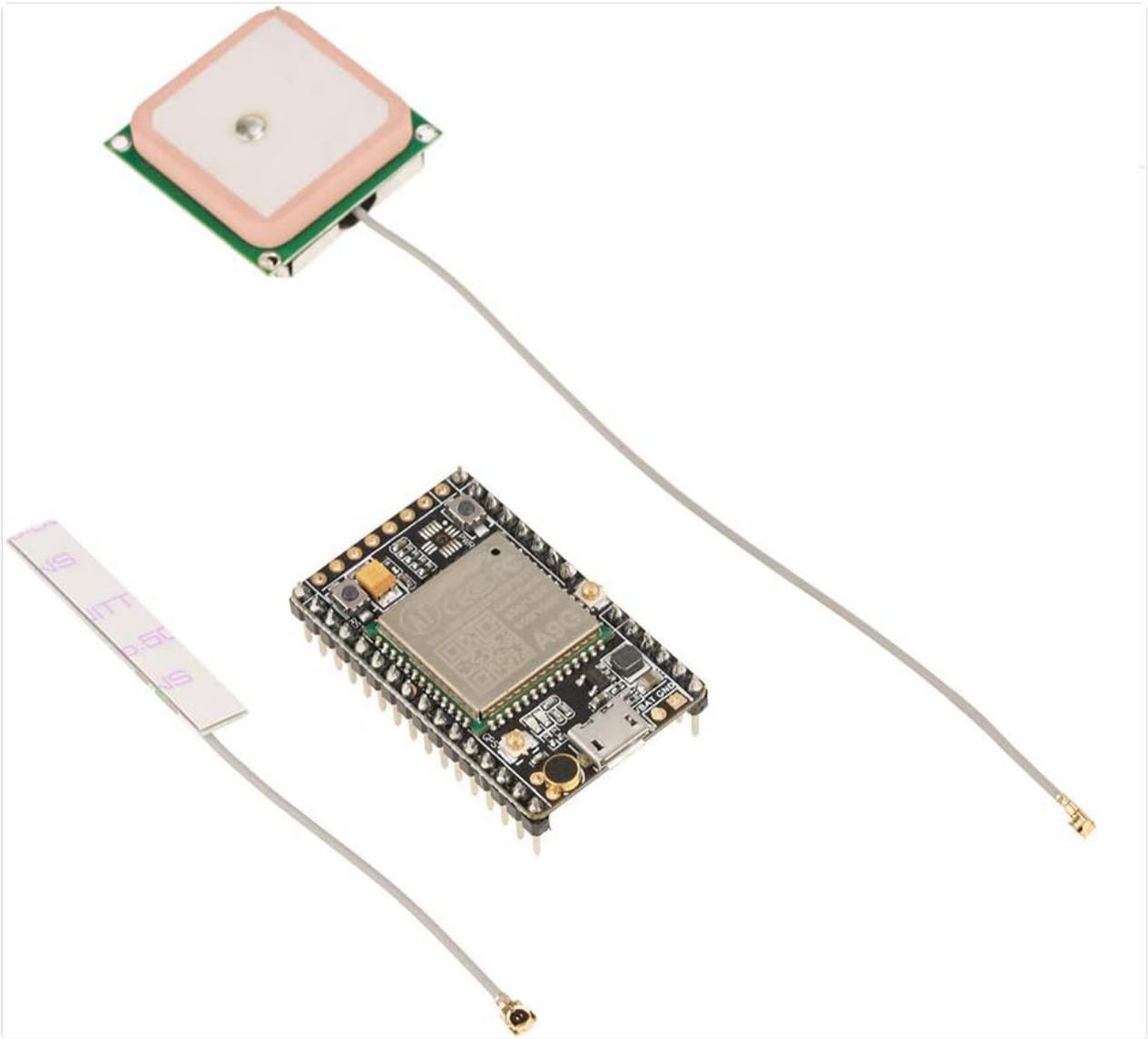
PRODUCT OVERVIEW

Key Features

- **A9G Development Board:** A versatile board based on the A9G GPRS/GSM + GPS/BDS module for validating communication and peripheral functions.
- **Multifunction:** Supports basic phone/SMS, GPRS networking communications, and GPS/BDS dual-mode positioning.
- **Integrated Components:** Includes lithium battery charging management, microphone, speaker interface, USB communication interface, multiple user keys/LEDs, TF card slot, accelerometer, I2C2 interface, and ADC interface.
- **External Interface:** Compatible with camera expansion boards (30W/200W) and coin machine expansion boards for traditional coin machines.

Package Contents

- 1 x A9 Development Board
- 1 x GSM Antenna
- 1 x GPRS Antenna



This image displays the Vikye A9G Development Board, a compact module, with both the GSM antenna (flat, green PCB) and the GPS antenna (square, ceramic patch) connected via their respective coaxial cables. This illustrates the complete setup of the board with its primary communication and positioning components.

SETUP INSTRUCTIONS

Wiring

Proper wiring is crucial for the functionality of the A9G Development Board. Follow the instructions below based on your power source and communication method.

- **Using USB to TTL Serial Cable:**

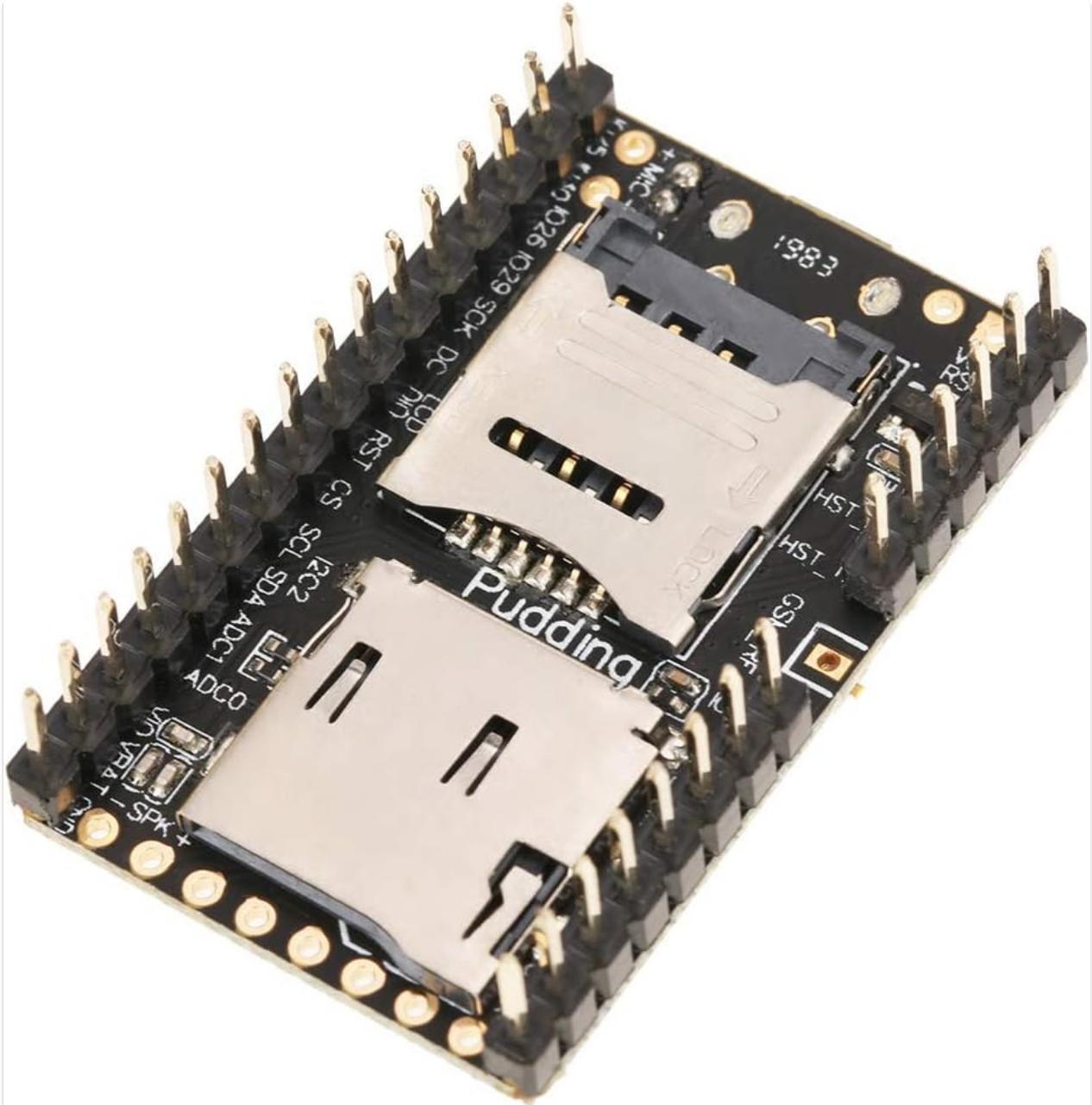
- VUSB to 5V
- GND to GND
- AT_TX to RX
- AT_RX to TX

- **Using USB Cable for Power:**

- GND to GND
- AT_TX to RX
- AT_RX to TX

- **Using Lithium Battery for Power:**

- VBAT to (3.3V-4.2V)
- GND to GND
- AT_TX to RX
- AT_RX to TX
- Press the **power_key** button for 2 seconds to power on.



A detailed view of the Vikye A9G Development Board, highlighting the SIM card slot and the TF (microSD) card slot. The surrounding pin headers are visible, which are used for connecting external components and for power and data transmission during setup.

Power On Procedure

1. The A9G development board can be powered by either a lithium battery or a USB connection.
2. After power-on, the module will automatically start running within 1 to 2 seconds. The serial port will output information automatically. No manual operation is required for the board to begin normal operation.
3. To reset the module, press the **Rst_Key** button.
4. The module defaults to AT instruction mode upon startup.

OPERATING INSTRUCTIONS

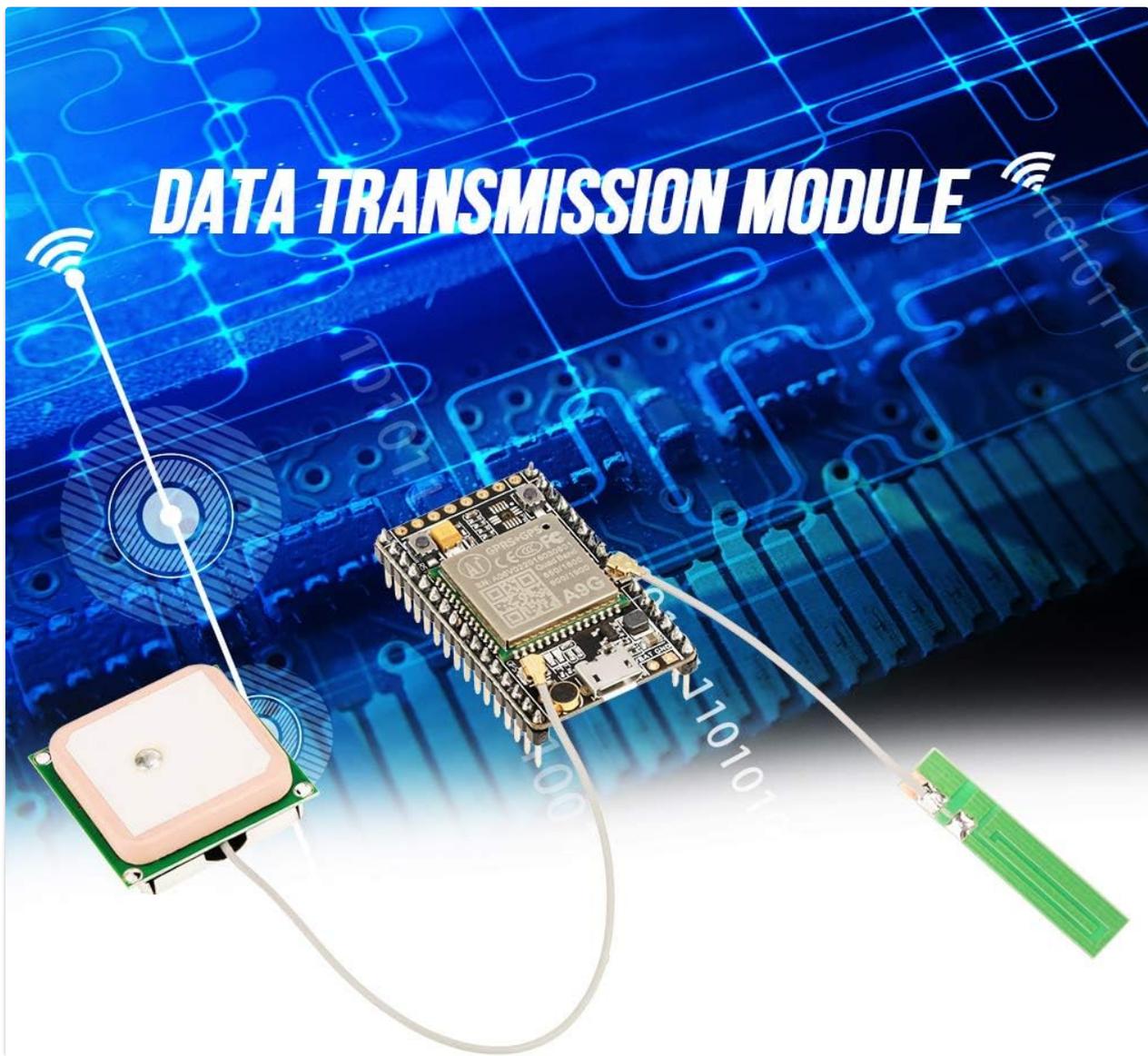
Basic Operation

The A9G module operates primarily through AT commands. Once powered on, the module enters AT instruction mode, allowing communication via a serial interface (e.g., USB to TTL serial cable) to send commands and receive responses for controlling GSM/GPRS and GPS/BDS functions.

Potential Applications

The versatility of the A9G Development Board allows for various peripheral prototyping and application development:

- **Vehicle Immobilizer:** Utilize GPRS + GPS with acceleration sensors for vehicle tracking and security.
- **Remote Monitoring Intercom:** Implement GSM with a microphone and speakers for two-way communication.
- **Smart Watch Development:** Create smartwatches with GPRS/GSM + GPS and a 1.54-inch capacitive touch screen.
- **Elderly Monitoring Devices:** Combine GPRS/GSM + GPS with heart rate and oximeter sensors and a 1.54-inch capacitive touch screen for health monitoring.
- **Remote Monitoring Camera:** Integrate GPRS + TF card + camera extension board for remote surveillance.
- **Payment Slot Machine:** Develop WeChat payment slot machine solutions.
- **Custom Devices:** Leverage onboard features for custom device development based on Lua programming.



This graphic depicts the A9G Development Board with its GSM and GPS antennas, overlaid with digital circuit patterns and text 'DATA TRANSMISSION MODULE'. It visually represents the board's capability for wireless data communication and positioning in various applications.

MAINTENANCE

General Care

- Keep the development board in a dry environment to prevent moisture damage.
- Avoid exposing the board to extreme temperatures or direct sunlight.
- Handle the board with care to prevent physical damage to components or connectors.
- Ensure proper ventilation when operating for extended periods.
- Disconnect power before making any wiring changes or modifications.

TROUBLESHOOTING

Common Issues

- **No Power:** Verify power connections (USB or battery) and ensure the power_key button is pressed for 2 seconds if using a battery. Check the power indicator LED.
- **No Serial Output:** Confirm correct wiring for AT_TX/RX to your serial adapter. Ensure the serial port

settings (baud rate, etc.) match the module's requirements.

- **GSM/GPRS Connectivity Issues:** Check SIM card insertion and activation. Ensure the GSM antenna is securely connected. Verify network coverage in your area.
- **GPS/BDS Positioning Issues:** Ensure the GPS antenna is connected and has a clear view of the sky. Positioning may take longer in indoor environments.
- **Module Unresponsive:** Try pressing the Rst_Key button to reset the module. Recheck all connections and power supply.

For more complex issues, refer to the A9G module's official documentation or community forums for detailed AT command references and advanced troubleshooting guides.

SPECIFICATIONS

Technical Specifications

Feature	Detail
Brand	Vikye
Model Name	A9G
Connectivity Technology	GPRS
Included Components	1 x A9 Development Board, 1 x GSM Antenna, 1 x GPRS Antenna
Operating System	Lua
Processor Brand	ARM
Wireless Compatibility	802.11b
Compatible Devices	Camera
RAM Memory Technology	LPDDR3
Processor Count	1
Total USB Ports	1
Item Weight	0.02 Kilograms
Model Number	u7kdg9cs0m
ASIN	B07QDR4ZP6
UPC	748018527156, 748018587662



An overhead shot of the central A9G module integrated onto the development board. The module's metallic shield displays 'GPRS+GPS', a serial number, and a QR code, indicating its core functionalities and identification details.

WARRANTY AND SUPPORT

Warranty Information

Specific warranty details for the Vikye A9G Development Board are not provided in this manual. Please refer to the product's purchase documentation or contact the seller directly for information regarding warranty coverage and terms.

Customer Support

For technical assistance, troubleshooting, or any inquiries regarding the Vikye A9G Development Board, please contact the seller or manufacturer through the platform where the product was purchased. They can

provide specialized support and guidance.