

## NEDLATSDY JDY-34 SPP-C

# NEDLATSDY JDY-34 SPP-C Bluetooth 4.2 Dual-Mode Module Instruction Manual

## 1. PRODUCT OVERVIEW

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The NEDLATSDY JDY-34 SPP-C is a Bluetooth 4.2 dual-mode module designed for host applications. It supports both Bluetooth and 2.4G communication, enabling multi-machine connections, particularly useful for printer applications. This module offers compatibility with common Bluetooth modules such as HC-05 and HC-06, providing flexible integration into various electronic projects.

## 2. SETUP INSTRUCTIONS

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This section details the steps required to set up your JDY-34 SPP-C module for initial use.

### 2.1 Module Pinout

The JDY-34 SPP-C module typically features standard pin headers for power, ground, and data communication (e.g., TX, RX). Refer to the module's silkscreen for specific pin labels.

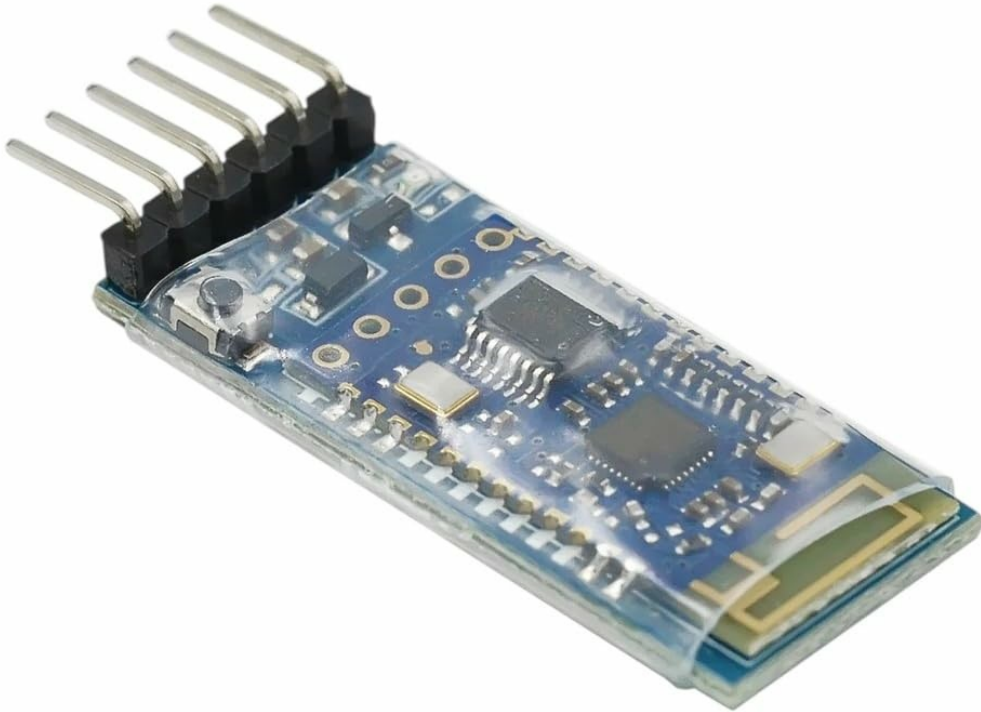


Figure 1: The JDY-34 SPP-C Bluetooth 4.2 Dual-Mode Module, showing its compact form factor and pin headers for connection to a host system.

## 2.2 Power Supply

Connect the module to a stable power supply. Ensure the voltage regulator on your host board or external power supply provides the correct voltage as specified in the module's datasheet (typically 3.3V or 5V, depending on the specific variant). Incorrect voltage can damage the module.

## 2.3 Data Connection

Connect the module's TX (Transmit) and RX (Receive) pins to the corresponding RX and TX pins of your microcontroller or host device. A common setup involves using a UART interface for serial communication.

## 2.4 Initial Configuration

The module can be configured using AT commands sent via a serial terminal. Common configurations include setting the module name, baud rate, and operating mode (e.g., master or slave). Refer to the JDY-34 SPP-C AT command set documentation for detailed instructions.

## 3. OPERATING INSTRUCTIONS

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The JDY-34 SPP-C module supports both Bluetooth 4.2 and 2.4G communication protocols, allowing for versatile applications, especially in multi-device environments like printer networks.

### 3.1 Bluetooth Mode Operation

- **Pairing:** In Bluetooth mode, the module can be configured as a master or slave. As a slave, it can be discovered and paired by a master device (e.g., a smartphone or another Bluetooth module). As a master, it can scan for and connect to other slave devices.
- **Data Transmission:** Once paired and connected, data can be transmitted transparently over the serial interface (UART). Any data sent to the module's RX pin will be transmitted wirelessly, and any data received wirelessly will be output via the TX pin.
- **Compatibility:** The module's compatibility with HC-05 and HC-06 modules simplifies integration into existing projects that use these common Bluetooth serial port profile (SPP) modules.

### 3.2 2.4G Mode Operation

The 2.4G mode offers an alternative wireless communication method, often used for proprietary or low-latency applications. Configuration for 2.4G mode is also typically done via AT commands, allowing for channel selection, address setting, and data packet handling.

### 3.3 Multi-Machine Connection for Printers

The module's ability to support multi-machine connections is particularly beneficial for printer applications. A single host module can manage communication with multiple printer devices, facilitating centralized control or data distribution. Specific AT commands are used to manage connections to multiple devices.

## 4. MAINTENANCE

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Proper maintenance ensures the longevity and reliable performance of your JDY-34 SPP-C module.

- **Environmental Conditions:** Operate the module within its specified standard operating temperature range. Avoid extreme temperatures, high humidity, and direct exposure to water or corrosive substances.
- **Cleaning:** If necessary, gently clean the module with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Handling:** Handle the module with care to avoid physical damage to the components or pins. Electrostatic discharge (ESD) can damage electronic components, so use appropriate ESD precautions when handling.
- **Firmware Updates:** Periodically check the manufacturer's website or support channels for any available firmware updates. Updates can improve performance, add features, or fix bugs.

## 5. TROUBLESHOOTING

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If you encounter issues with your JDY-34 SPP-C module, consider the following troubleshooting steps:

- **No Power/Indicator LED Off:**
  - Verify the power supply voltage and connections.
  - Check for any short circuits or incorrect wiring.
- **Unable to Connect/Pair:**

- Ensure both modules are powered on and within range.
  - Check if the modules are configured for compatible roles (e.g., one master, one slave).
  - Verify the correct AT commands were used for pairing and connection settings.
  - Confirm the baud rate settings match on both the module and the host device.
- **Data Transmission Errors:**
    - Check TX/RX pin connections; ensure TX of one device is connected to RX of the other.
    - Verify baud rate, parity, data bits, and stop bits settings are consistent.
    - Ensure the wireless link is stable and free from interference.
- **Module Not Responding to AT Commands:**
    - Ensure the module is in AT command mode (if applicable, some modules require a specific pin to be pulled high/low).
    - Check serial terminal settings (baud rate, line endings).

If these steps do not resolve the issue, please refer to the support section for further assistance.

## 6. SPECIFICATIONS

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Feature	Specification
Model Number	JDY-34 SPP-C
Bluetooth Version	4.2
Operating Modes	Dual-Mode (Bluetooth, 2.4G)
Compatibility	HC-05, HC-06
Application	Printer, Multi-machine connection
Material	Electronic components
Operating Temperature	Standard
Manufacturer	NEDLATSDY
ASIN	B0FZFCHMVD

## 7. WARRANTY AND SUPPORT

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NEDLATSDY is committed to providing high-quality products and exceptional customer support. While specific warranty details are not provided in this manual, the product is backed by a money-back guarantee, reflecting confidence in its quality.

For any questions, concerns, or technical assistance regarding your JDY-34 SPP-C module, please contact NEDLATSDY customer support. Our knowledgeable team is available to help you with setup, operation, and troubleshooting.

Please visit the product page or contact your retailer for the most current support information and warranty terms.