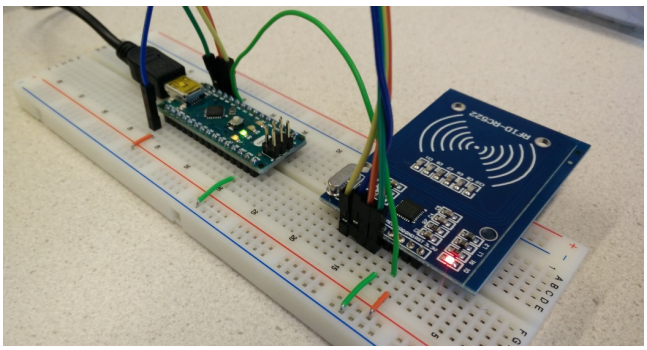
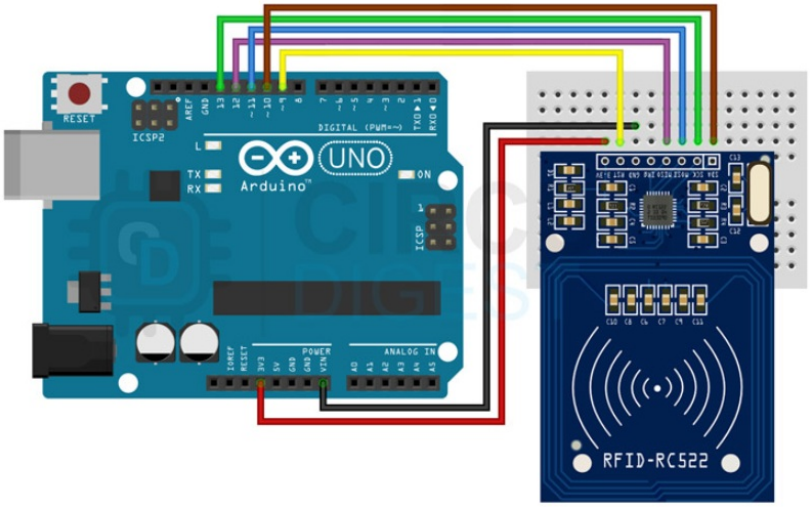


JVM 31BV3-0001 RFID Module User Manual

Contents

JVM 31BV3-0001 RFID Module



Product Information

Product Name: U-Canister RFID Module

Specification

- Size (WxH): 73mm x 30mm
- Weight: 200g
- Power: 3.3V
- Communication: USART to CAN, CAN to USB
- Temperature: -20°C to +50°C
- Frequency: 13.56MHz

Certification

- Certified Company Name: JVM CO., Ltd.
- Equipment Designation: RFID/NFC Radio device (13.56MHz band)
- Model Name: 31BV3-0001
- Manufacturer / Manufacture country: JVM CO., Ltd. / Republic Korea
- Service center number: 1588-7587

FCC Compliance Statement

This device complies with part 15 of the FCC rules.

Operation is subject to the following two conditions

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with

any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Regulatory Notice to Host Manufacturer according to KDB 996369 D03 OEM Manual v01

List of applicable FCC rules: This module has been granted modular approval as below listed FCC rule parts: - FCC Parts 15 Subpart C, 15.225. Summarize the specific operational use conditions: The OEM integrator should use equivalent antennas which are the same type and equal or less gain than an antenna listed in 2.7 in this instruction manual.

Product Usage Instructions

Applied to Equipment

This product is applied to ATDPS equipment.

System Requirements

- Frequency: 13.56MHz
- Protocol: ISO15693 (TI Tag-it)

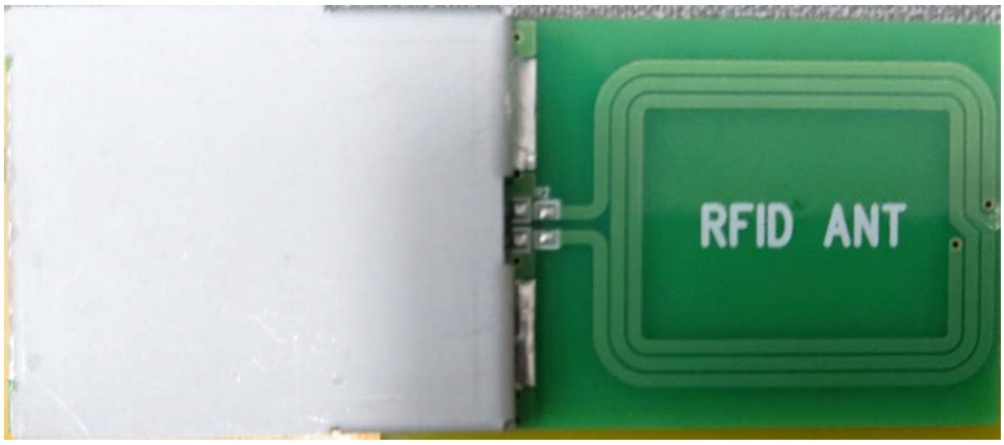
How to Use the Module

- Connect CAN to USB Converter.
- Select Bit Rate(250kBit/s) and Press OK Button.
- If RFID Tag is detected, the information is displayed in Message window.

Outline

1. Outline View

RFID module



This Product Support RFID.

2. Applied to equipment : ATDPS
3. System Requirements
    - Frequency : 13.56MHz
    - Protocol : ISO15693 (TI Tag-it)
4. How to use the module
    1. Connect CAN to USB Converter.
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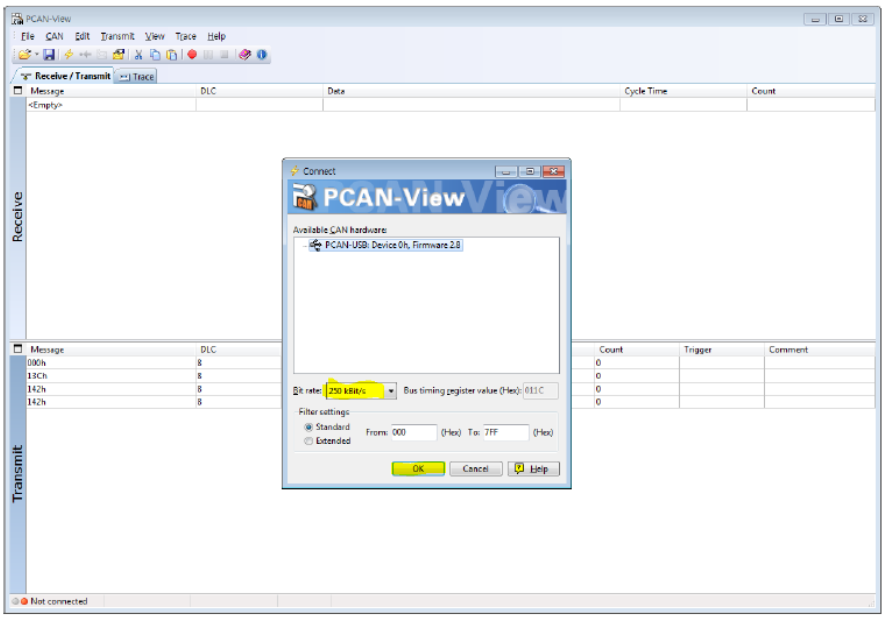

Specification

Specification	31BV3-0001
Size(WxHmm)	73mm x 30mm
Weight (g)	200g
Power	3.3V
Communication	USART to CAN, CAN to USB
Temperature	-20℃ ~ +50℃
Frequency	13.56MHz

Certified Company Name	JVM CO., Ltd
Equipment designation	RFID/NFC Radio device (13.56MHz band)
Model Name	31BV3-0001
Manufacture Date	Separately marked
Manufacturer / Manufacture country	JVM CO., Ltd / Republic Korea
Service center number	1588-7587

- This device may cause radio interference during use and may cause harmful interference from other device.

PRODUCT FCC Compliance Statement

This device complies with part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

JVM PROPRIETARY & CONFIDENTIAL USER MANUAL

Industry Canada Statement
This device complies with RSS-210 of the Industry Canada Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Radiation Exposure Statement
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Regulatory notice to host manufacturer according to KDB 996369 D03 OEM Manual v01>

List of applicable FCC rules
This module has been granted modular approval as below listed FCC rule parts.

- FCC Parts 15 Subpart C, 15.225
  Summarize the specific operational use conditions
- The OEM integrator should use equivalent antennas which is the same type and equal or less gain then an antenna listed in 2.7 in this instruction manual.

RF exposure considerations
The module has been certified for integration into products only by OEM integrators under the following condition:

- The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.
- The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.
- Mobile use

As long as the three conditions above are met, further transmitter testing will not be required.

OEM integrators should provide the minimum separation distance to end users in their end-product manuals.

Any new antenna type, higher gain than listed antenna should be met the requirements of FCC rule 15.203 and 2.1043 as permissive change procedure.

Label and compliance information End Product Labeling

The module is labeled with its own FCC ID and IC Certification Number. If the FCC ID and IC Certification Number are not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area with the following:

- “Contains FCC ID: 2AF6G31BV3-0001”
- “Contains IC: 23605-31BV30001”

Information on test modes and additional testing requirements

- OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, additional transmitter in the host, etc.).

Additional testing, Part 15 Subpart B disclaimer

- The final host product also requires Part 15 subpart B compliance testing with the modular transmitter installed to be properly authorized for operation as a Part 15 digital device.

Documents / Resources

	JVM 31BV3-0001 RFID Module [pdf] User Manual 31BV3-0001, 2AF6G31BV3-0001, 2AF6G31BV30001, 31bv3 0001, 31BV3-0001 RFID Module, RFID Module, Module