

# AORDR RFID Reader



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## 1. Overview

This manual describes how to use the AORDR and its main functions.

Please read and use this manual carefully before using the product.

This manual can be used as a reference for customers purchasing AndOpen's products.

Staff training materials.

The contents and specifications of this manual are subject to change without notice for performance improvement.

caution. AndOpen assumes no responsibility for inaccuracies or typographical errors in this manual.

## 2. Copyright

The AORDR and its documentation and all programs, data files and contents are privately protected.

Unauthorized use, copying and distribution by third parties is strictly prohibited

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### 3. Main Features

AORDR is a 13.56Mhz RFID reader

ISO 14443-A

ISO 14443-B

ISO 15693

#### 4. Safety precautions

##### warning

(1) Use within the rated voltage and rated current range. There is a risk of damage, breakdown, or fire.

(2) Be careful when using as it is sensitive to static electricity or external electric shock. Before using the product, be sure to discharge static electricity from your body by touching a grounded metal, etc. It may cause high altitude or malfunction.

(3) When used for a purpose other than the provided function or purpose, there is a risk of breakage or malfunction.

(4) After opening the product, please follow the instructions for use in this manual.

(5) Be sure to turn off the power before installation and removal of the product and when wiring the product. Otherwise, there is a risk of product damage or malfunction.

(6) During operation after power is applied, do not rub the conductive parts (parts exposed by metal) with your hands, as this may cause product damage or malfunction, and may cause electric shock.

(7) The user is responsible for any problems caused by disassembling or remodeling the product.

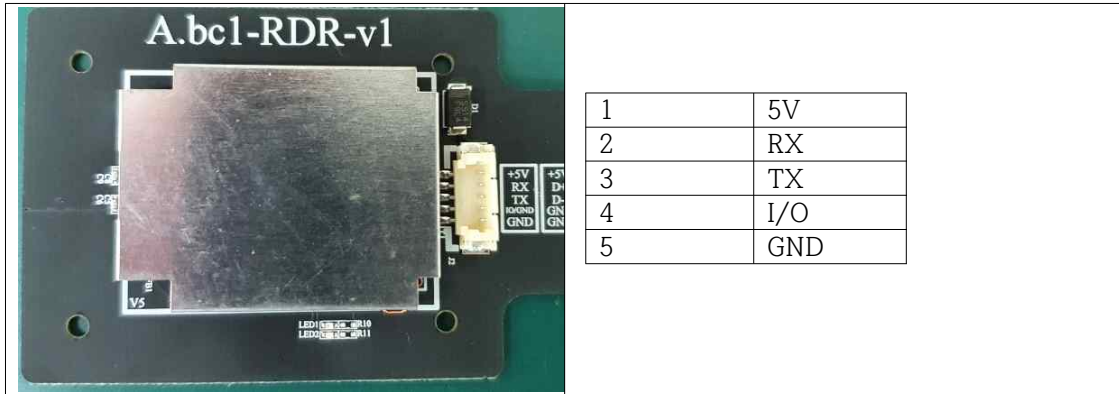
## 5. Product Components

obverse	The back
TBD	TBD

## 6. Installation

- The length of the communication line should be less than 3m.

(1) Connect Pin





## 7. Features

RF Frequency	13.56MHz
Power Supply	4.5 to 5.5V DC Operation
Supply Current	40mA @ 5V
Dimensions	mm
RF Protocol	ISO14443-A/B, ISO15693 Mifare Classic, Mifare UltraLight, Mifare Plus, Mifare NTAG, ICODE SLIX1, ICODE SLIX 2
Host Interface	TTL232
Antenna	50-ohm Internal antenna
RF Power	150mW @ 5V
Read Range	50mm internal ant
Anticollision	Support(1tags)

## 8. INTEGRATION INSTRUCTIONS

### List of applicable FCC rules

#### Complies with part 15.225

##### Summarize the specific operational use conditions

This device should be installed and operated with minimum 20 cm between the radiator and your body. The module must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Limited module procedures

Not applicable

#### Trace antenna designs

Not applicable

#### RF exposure considerations

This module complies with FCC/IC RF radiation exposure limits set forth for an uncontrolled environment. The module is limited to installation in mobile or fixed applications. At least 20 Cm of separation distance between the transmitting antenna and the user's body must be maintained at all times.

The host manual shall include the RF exposure statements.

#### Antennas

The antenna is permanently attached to the module.

Antenna type: PCB pattern antenna

#### Label and compliance information

The module is labeled with its own FCC. If the FCC ID/IC is 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: 2A28FAORDR",

#### Information on test modes and additional testing requirements

This module is tested in a standalone. Co-location of this module with other transmitters that operate simultaneously are required to be evaluated using the FCC multi-transmitter procedures.

#### Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The host product may need to be evaluated against the FCC Part 15B criteria for unintentional radiators in order to be properly authorized for operation as a Part 15 digital device.

#### - FCC 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device should be installed and operated with minimum 20 cm between the radiator and your body.