Smart Approach

速碼波科技

Antenna Module

Product DEMO instuction

Veb: 1.00 Date:20130904

Catalogue:

Safety:

1. Electric Safety:

To avoid the suddenly electricity cause equipment damaged, please have all connectors linked before turn on the power.

2. Operate Safety:

Please read this manual carefully before install.

Please confirm all wires are putting into the right place and linked well.

3. About this Manual.

This product manual included all the information you need in the installation

4. Manual organized:·

This manual is organized by chapters below:

(1) Chapter 1. NFC (Near Field Communication) instructions.

This chapter will introduce the application of Antenna Module and NFC.

(2) Chapter 2. Antenna Module instructions

This Chapter will introduce constitute of Antenna Module.

(3) Chapter 3. Antenna Module engaged and Installation

This Chapter will introduce the steps of installation.

Chapter 1. NFC (Near Field Communication) instructions

1. Foreword

Near field communication (NFC) is a set of standards for smartphones and similar devices to establish radio communication with each other by touching them together or bringing them into close proximity, usually no more than a few inches. Present and anticipated applications include contactless transactions, data exchange, and simplified setup of more complex communication.

2. Introduction:

NFC builds upon RFID systems by allowing two-way communication between endpoints, where earlier systems such as contact-less smart cards were one-way only. It has been used in mobile devices.

NFC "tags" can also be read by NFC devices, it is also capable of replacing earlier one-way applications.

3. NFC applications

(1) Commerce

NFC devices can be used in contactless payment systems, similar to those currently used in credit cards and electronic ticket smartcards, and allow mobile payment to replace or supplement these systems. For example, Google Wallet allows consumers to store credit card and store loyalty card information in a virtual wallet and then use an NFC-enabled device at terminals that also accept MasterCard PayPass transactions.

(2) Bluetooth and Wi-Fi connections

NFC offers a low-speed connection with extremely simple setup, and can be used to bootstrap more capable wireless connections. For example, the Android Beam software uses NFC to complete the steps of enabling, pairing and establishing a Bluetooth connection when doing a file transfer. The same principle can be applied to the configuration of Wi-Fi networks.

(3) Social networking

NFC can be used in social networking situations, such as sharing contacts, photos, videos or files, and entering multiplayer mobile games. in the field of social networking it is very useful to exchange the contacts & other files.

4. NFC Antenna module applications

NFC Antenna Module can be installed under the Touch Pad of notebook, ultrabook and personal computers, it can achieve Wireless payment and to read NFC single in different NFC

devices.

NFC can make the process of identify much easier, more accuracy, much safer, and more limpid.

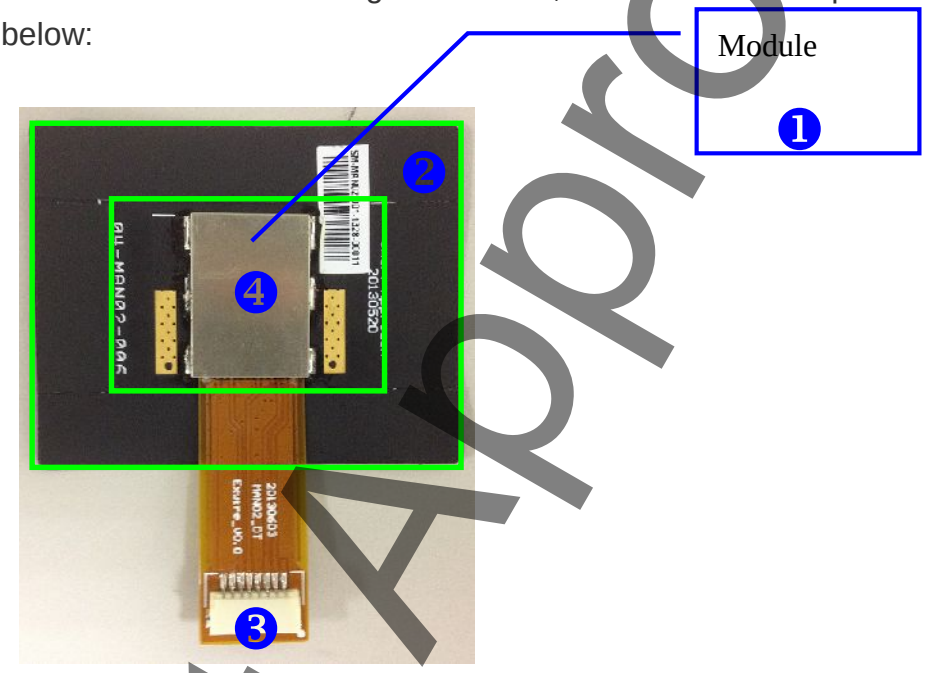
You can link all your electricity devices via NFC to make the information transiting much easier.

Chapter 2: Antenna Module instruction

Items:

❶ Module
❷ Antenna
❸ Connector linking wires
❹ Shielding

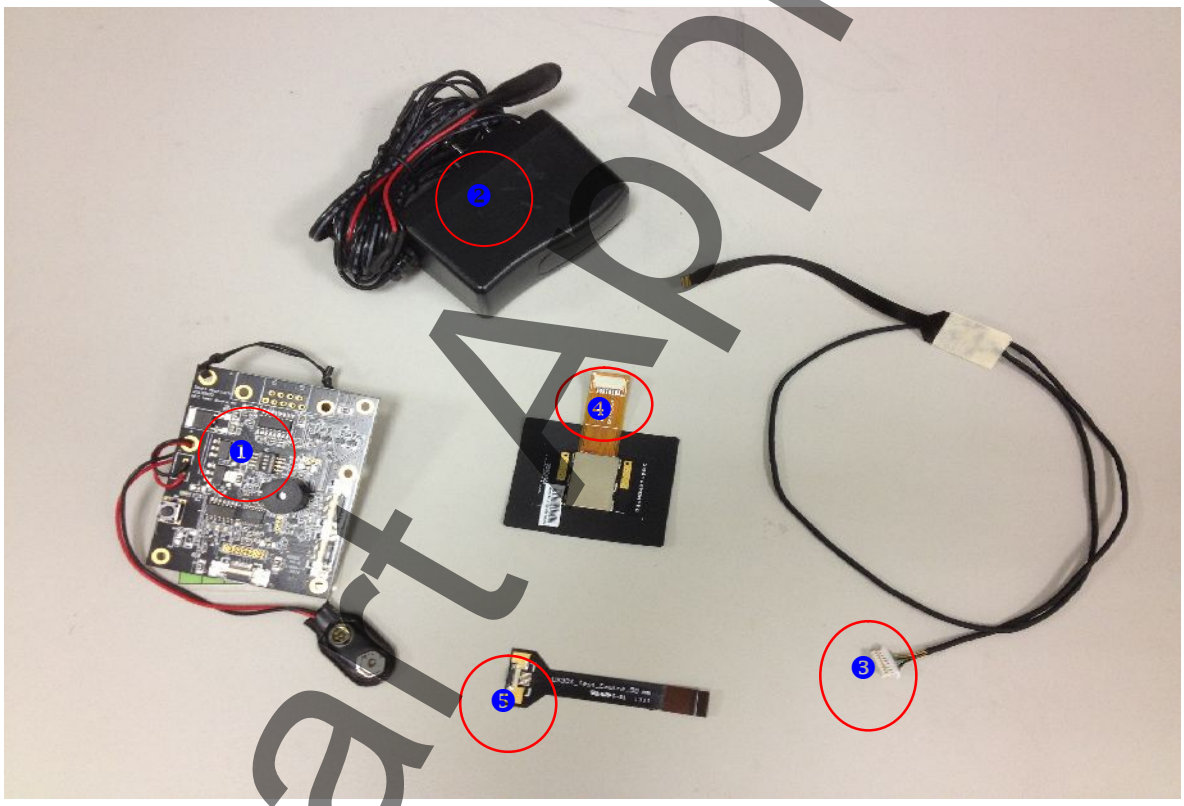
Combine above 4 elements, we named it “Antenna Module”, it’s lighter, shorter, smaller and thinner to integrate into NB, Tablets and Smartphones. Find pic below:

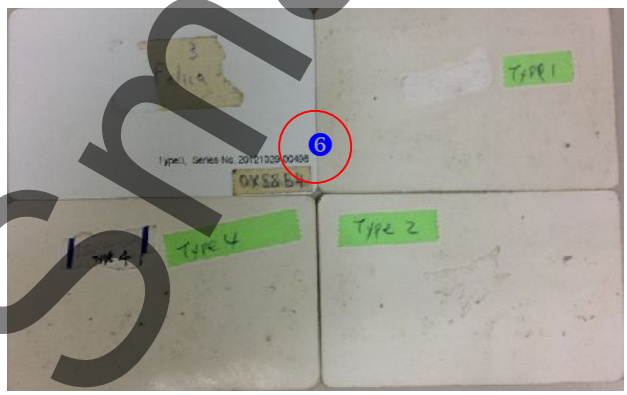


Chapter 3: Antenna Module engaged and Installation

Electricity requirement to engage NFC Antenna Module.

Step/Item	ITEM NAME	QTY
①	Host(Simulate the computer MB)	1
②	Power Adapter(Supply electric to Host)	1
③	Wire	1
④	Antenna Module	1
⑤	Wire (8 Pin to 15 Pin for host linking)	1
⑥	Sensor Card (Type1、Type2、Type3、Type4)	4

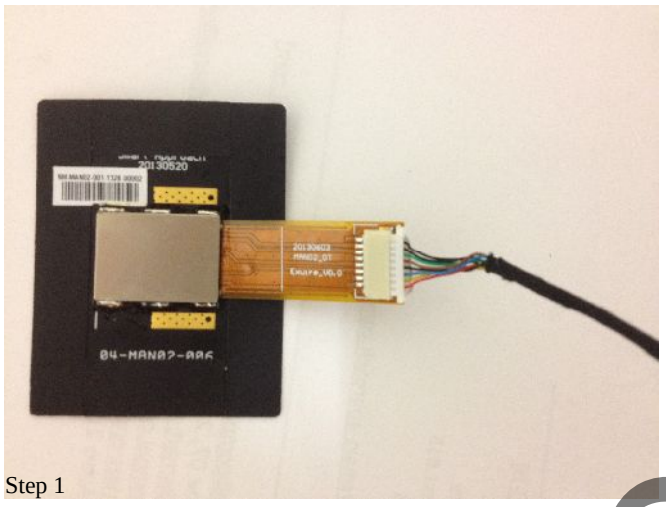




SOP steps for launch the NFC antenna module.

1. Insert ❸ Wire into ❹Antenna Module Connector , (Refer to pic “Step 1”)
2. Insert item ❺Wire and put some pressure to press the cable end, make sure they are linked (Refer to pic “Step 2”) and then insert the other side of ❺Wire into ❶Host J4 pin. (Refer to pic “Step 3”)
3. Fasten ❶Host and ❷Power Adapter (Refer to pic “Step 4”).
   Turn on the power, the host will make a “Bee” sound when above ❻card nearby, “Bee” sound means the host has sensor the Cards (Refer to pic “Step 5”)..

Step 1.

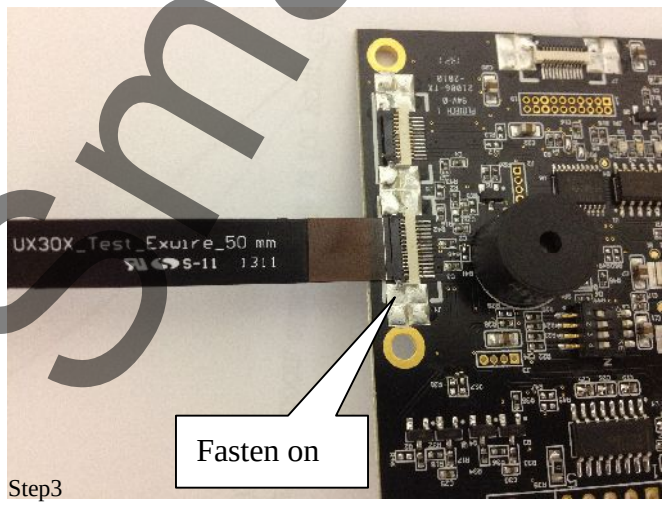


Step 1

Step 2

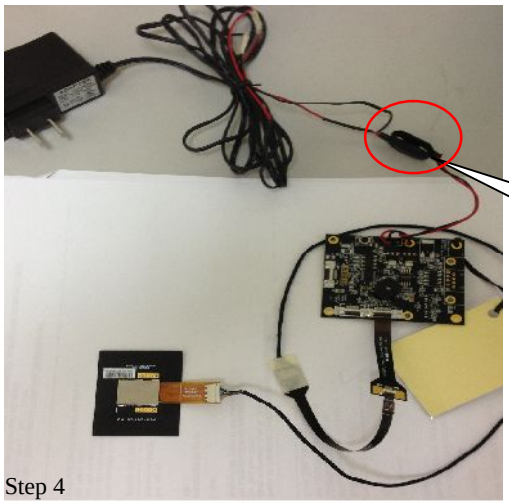
Step2

Step 3



Step3

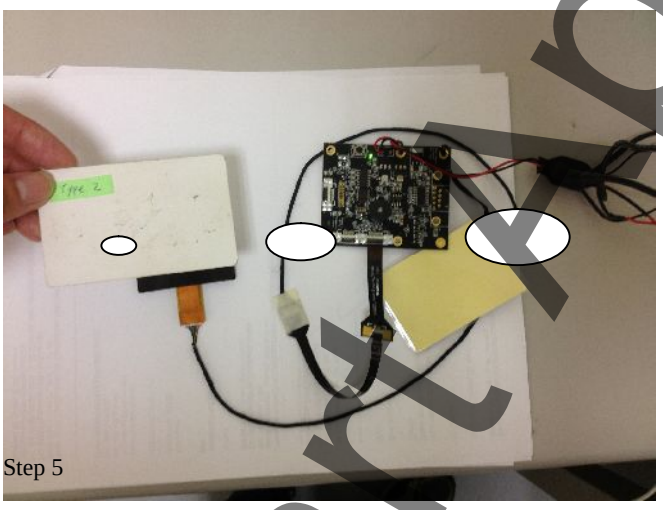
Step 4



Step 4

Fasten on power

Step 5



Step 5

Take❻Cards
nearby❹Antenna Module
Bee sound will be actived.

FEDERAL COMMUNICATIONS COMMISSION 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 try to correct the interference by one or more 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 that to which the receiver is connected.

-Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: 2AAYI-MAN02NFCAM ” and "Contains IC: 11378A-MAN02NFCAM“

Information for the OEMs and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

1) This device is intended for OEM integrators only.

2) Please see the full Grant of Equipment document for other restrictions.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.
Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.