InfoThink Technology CO., LTD.
5F., No.133, Xinhu 1st Rd., Neihu Dist., Taipei City 114-94, Taiwan (R.O.C.)
TEL：(02)2790-1790 FAX：(02)2790-1770

規格承認書

SPECIFICATION FOR APPROVAL

Customer:	Getac Technology Corp.
Brand Name:	Getac
Description:	RX10 NFC Module
Our Parts Number:	179-90010390A0-9 RX10 + PN7462
Customer Parts Number:	442871900006 TF1-TH-NFC MODULE;NXP PN7462+ST-LSM303D,RX10,INFOTHINK
Made by:	InfoThink Technology
Date:	June, 17, 2017
Prepared：	Jack Chan
Approved：	Roman Chang

Customer’s Checked：

Customer’s Approved：

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1. General Description

The RX10 NFC module is a highly integrated transceiver module for contactless reader/writer communication at 13.56 MHz.

A dedicated Flash code is implemented to handle different RF protocols by an integrated microcontroller. The system host controller communicates with the RX10 NFC module by using the USB link.

The protocol between the host controller and the RX10 NFC module, on top of this physical link is the CCID protocol

2. Features

- High RF output power frontend IC for transfer speed up to 848 kbit/s
- NFC IP1 and NFC IP2 support
- Full NFC tag support (type 1, type 2, type 3, type 4A and type 4B)
- P2P active and passive, target and initiator
- Card emulation ISO14443 type A
- ISO/IEC 14443 type A and type B
- MIFARE classic card
- ISO/IEC 15693, and ISO/IEC 18000-3 mode 3
- Low power card detection
- Dynamic Power Control (DPC) support
- Compliance with EMV contactless protocol specification
- Compliance with NFC standards

3. Support the following operating modes:

- ISO/IEC 14443-A and B, MIFARE
- JIS X 6319-4 (comparable with FeliCa scheme)
- ISO/IEC 15693, ICODE, ISO/IEC 18000-3 mode 3
- NFC protocols - tag reader/writer, P2P
- ISO/IEC 14443- type A card emulation
- EMVCo compliance

4. System Requirements

- Desktop or notebook computer with a working USB port

- One of the following Operating Systems：
  - Windows® 2000
  - Windows® 2003 Server x32/x64
  - Windows® 2008 Server x32/x64
  - Windows Vista™ x32/x64
  - Windows® 7 x32/x64
  - Windows® 10 x32/x64

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- Support by the following OS through the PCSC-Lite driver：
  - GNU/Linux using libusb 1.0.x and later
  - Mac OS Leopard (1.5.6 and newer)
  - Mac OS Snow Leopard (1.6.X)
  - Solaris
  - FreeBSD

5. General Specifications

- Bus-powered - +5V +/- 5%, 500mA

- Average Power Consumption
  - Standby Mode: 0.12Watt
  - Active/Read Card Mode: 0.24 Watt

- Operational environment
  - Operating Temperature: -10°~60°
  - Operating Humidity: 10%~90%
  - Storage Temperature: -20°~70°
  - Storage Humidity: 10%~90%

6. FFC Pin List

CN2 - Mainly USB Signals				CN1 - Mainly Interface of LSM303D		
Pin No.	Pin Name	Input/Output		Pin No.	Pin Name	Input/Output
1	GND	POWER		1	GND	POWER
2	OPTION_BAYID_RFID	I/O		2	ACC_1_INT2	OUTPUT
3	RFID_PWRON	INPUT		3	ACC_1_INT1	OUTPUT
4	USB DM	USB SIGNAL		4	I2C1_SDA	I/O
5	USB DP	USB SIGNAL		5	I2C1_SCL	INPUT
6	GND	POWER		6	+3.3S_DK	POWER INPUT
7	+V3.3S_DK	POWER INPUT				
8	+V5S_DK_R	POWER INPUT				

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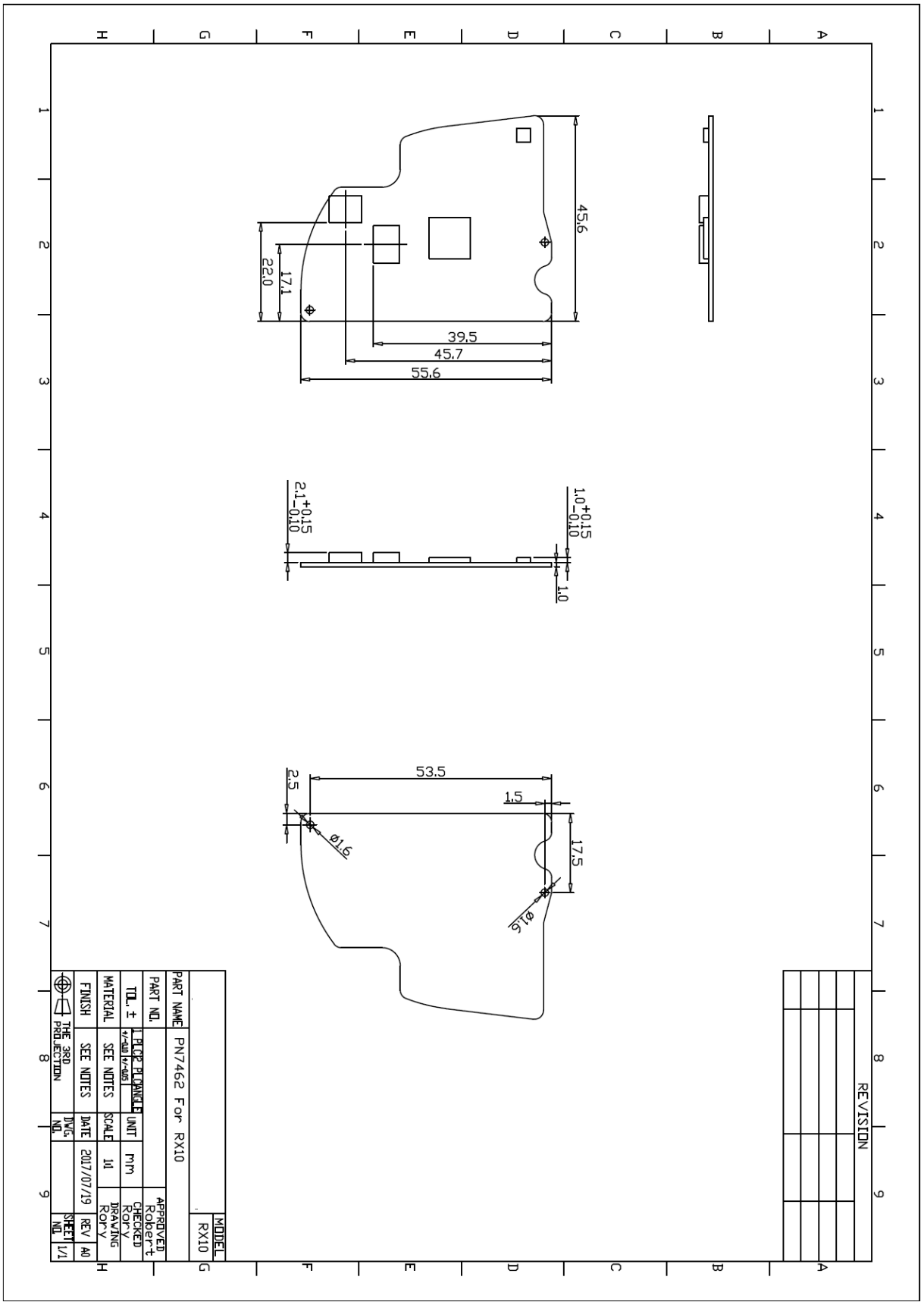
7. PCBA Dimension

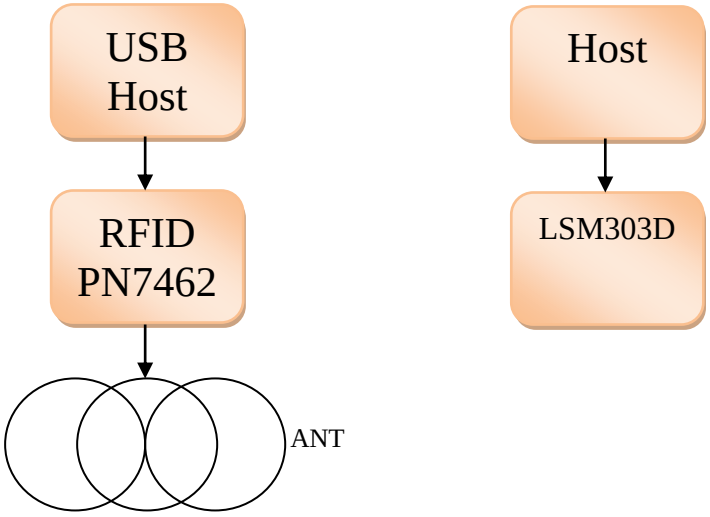
55.5 x 45.5 x 3.5 mm



8. USB Device VID/PID and Firmware Version

VID/PID: 0x1FC9/0x0117
F/W Ver.: 1.01

9. Block Diagram



10. RX10 NFC module Photograph