

## 規格承認書

### SPECIFICATION FOR APPROVAL

Customer: Getac Technology Corp.

Brand Name: Getac

Description: RC11 PN7462 NFC Module

Our Parts Number: 179-90010402A0-9

Customer Parts Number: 442895800001

Made by: InfoThink Technology

Date: Dec, 14, 2017

Prepared : Robert Yang

Approved : Roman Chang

Customer's Checked :

Customer's Approved :

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## 1. General Description

The RC11 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 RC11 NFC module by using the USB link.

The protocol between the host controller and the RC11 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, type 5)
- ◆ 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<sup>®</sup> 2000
  - Windows<sup>®</sup> 2003 Server x32/x64
  - Windows<sup>®</sup> 2008 Server x32/x64
  - Windows Vista<sup>™</sup> x32/x64
  - Windows<sup>®</sup> 7 x32/x64

- Windows<sup>®</sup> 10 x32/x64

◆ 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

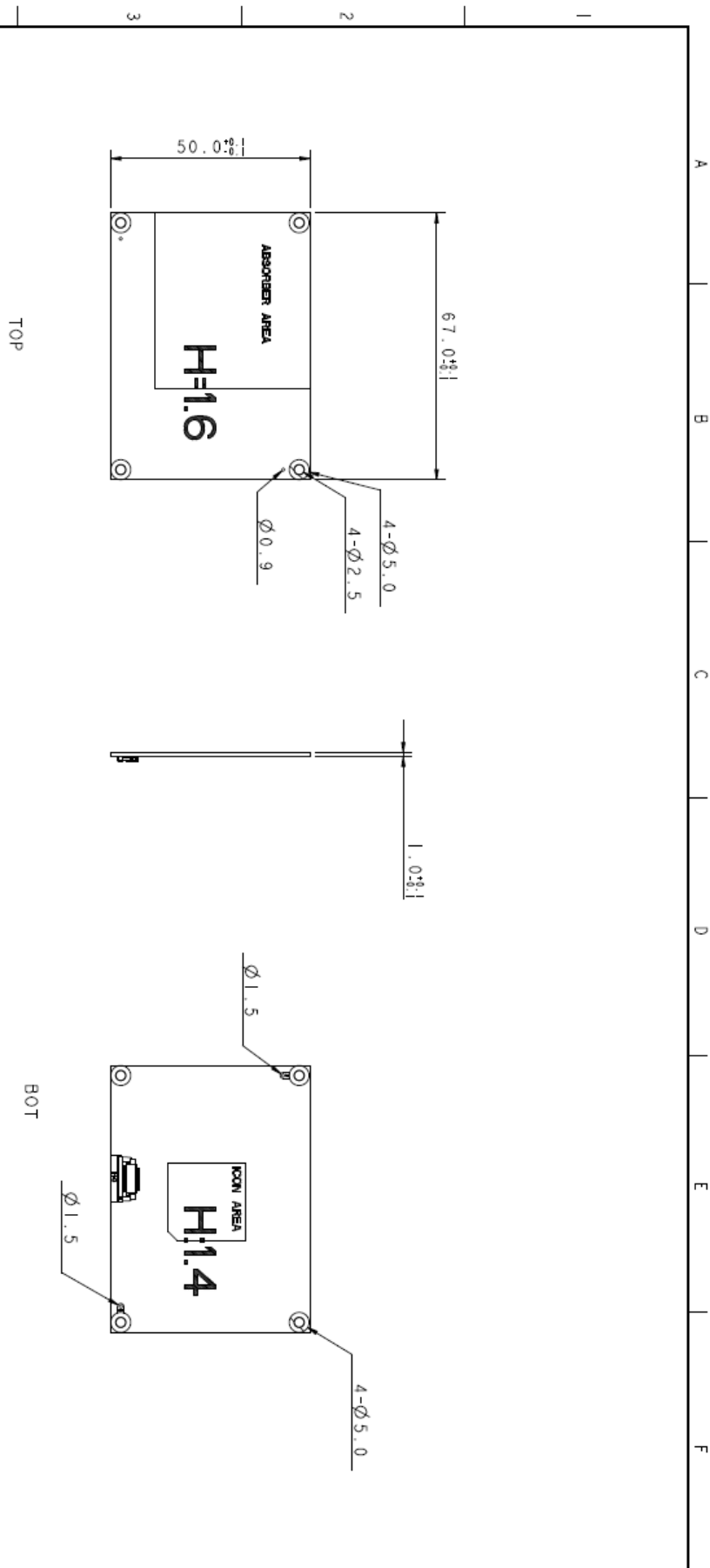
- Operating Temperature: -10°~60°
- Operating Humidity: 10%~90%
- Storage Temperature: -20°~70°
- Storage Humidity: 10%~90%

## 6. Connector Pin List

| CN2 - Mainly USB Signals |                  |              |
|--------------------------|------------------|--------------|
| Pin No.                  | Pin Name         | Input/Output |
| 1                        | +V5_DK           | POWER INPUT  |
| 2                        | +V5_DK           | POWER INPUT  |
| 3                        | USB DM           | USB SIGNAL   |
| 4                        | USB DP           | USB SIGNAL   |
| 5                        | GND              |              |
| 6                        | GND              |              |
| 7                        | SMART_CARD_PWRON | INPUT        |
| 8                        | OPTION_BAYID2    | I/O          |
| 9                        | GND              |              |
| 10                       | GND              |              |
| 11                       | +V3.3S_DK        | POWER INPUT  |
| 12                       | +V3.3S_DK        | POWER INPUT  |

## 7. PCBA Dimension

67 x 50 x 3.5 mm



| ITEM | CONTENTS OF CHANGE | RVS | CHK | APPV | W/D/Y | TOL $\pm$ | Pld  | Mkt  | Ins  | Por  | Cdb | Pac | Gas | PCB  | DATE | UNIT | MM | SCALE | 1.00 | DRAWING NAME | TBD | PROJECTION |
|------|--------------------|-----|-----|------|-------|-----------|------|------|------|------|-----|-----|-----|------|------|------|----|-------|------|--------------|-----|------------|
|      |                    |     |     |      |       | RANGE     |      |      |      |      |     |     |     |      |      |      |    |       |      |              |     |            |
|      |                    |     |     |      |       | 0~6       | 0.1  | 0.1  | 0.1  | 0.2  | 0.5 | 1   | 0.5 | 0.1  |      |      |    |       |      |              |     |            |
|      |                    |     |     |      |       | 6~30      | 0.1  | 0.1  | 0.1  | 0.25 | 1   | 1.5 | 1   | 0.1  |      |      |    |       |      |              |     |            |
|      |                    |     |     |      |       | 30~80     | 0.1  | 0.15 | 0.2  | 0.3  | 2   | 1.5 | 1   | 0.1  |      |      |    |       |      |              |     |            |
|      |                    |     |     |      |       | 80~180    | 0.15 | 0.15 | 0.25 | 0.3  | 2   | 2   | 1   | 0.15 |      |      |    |       |      |              |     |            |
|      |                    |     |     |      |       | 180~315   | 0.15 | 0.2  | 0.3  | 0.4  | 2.5 | 2   | 1   | 0.15 |      |      |    |       |      |              |     |            |
|      |                    |     |     |      |       | 315~600   | 0.2  | 0.3  | 0.4  | 0.5  | 3   | 3   | 2   | 0.15 |      |      |    |       |      |              |     |            |

Getac Technology Corp.

Model name: PCB-ASSY-NXP-RFID-TIII IP

File name: PCB-ASSY-NXP-RFID-TIII IP

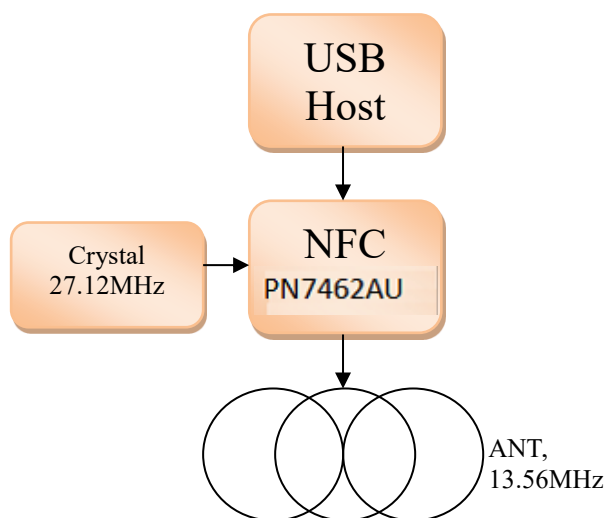
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## 8. USB Device VID/PID and Firmware Version

VID/PID: 0x1FC9/0x0117

F/W Ver.: 2.45

## 9. Block Diagram



## 10. RC11 NFC module Photograph

Top

Bottom

