

# ITEAD PN532 NFC Module

## Overview

ITEAD PN532 NFC module, as its name implies, is based on PN532 chip and used for 13.56MHz near field communication. The module is equipped with onboard antenna, thus no external antenna coil is needed. It is compatible with SPI, IIC and UART interface for communication. With NFC library support for Arduino and Raspberry Pi offered by us, it is quite convenient for development of products with NFC functions.

## Features

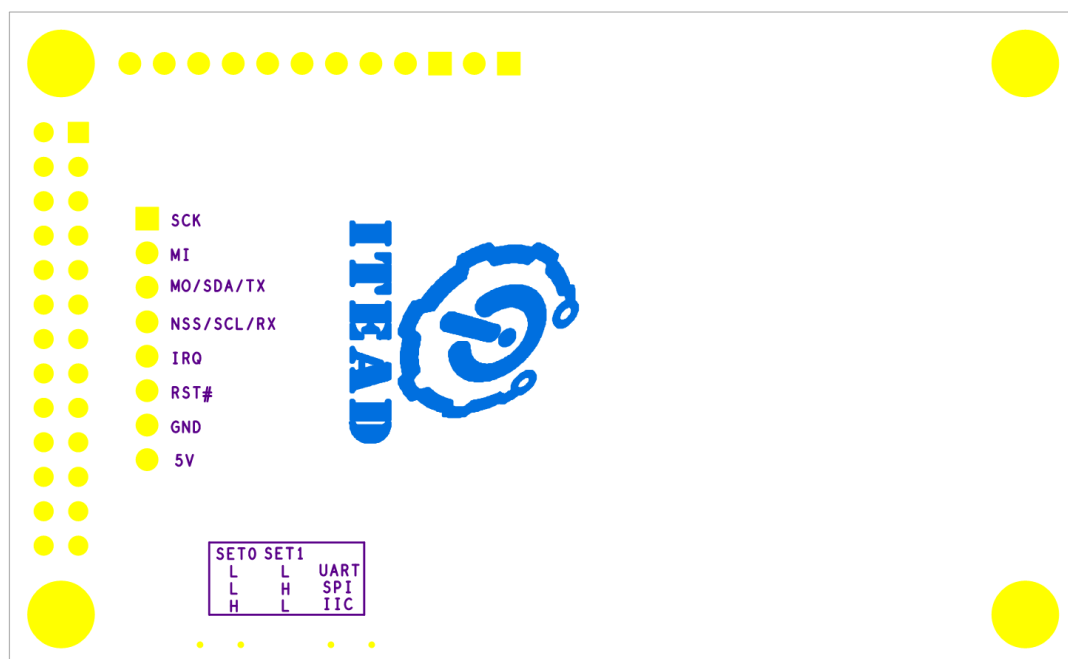
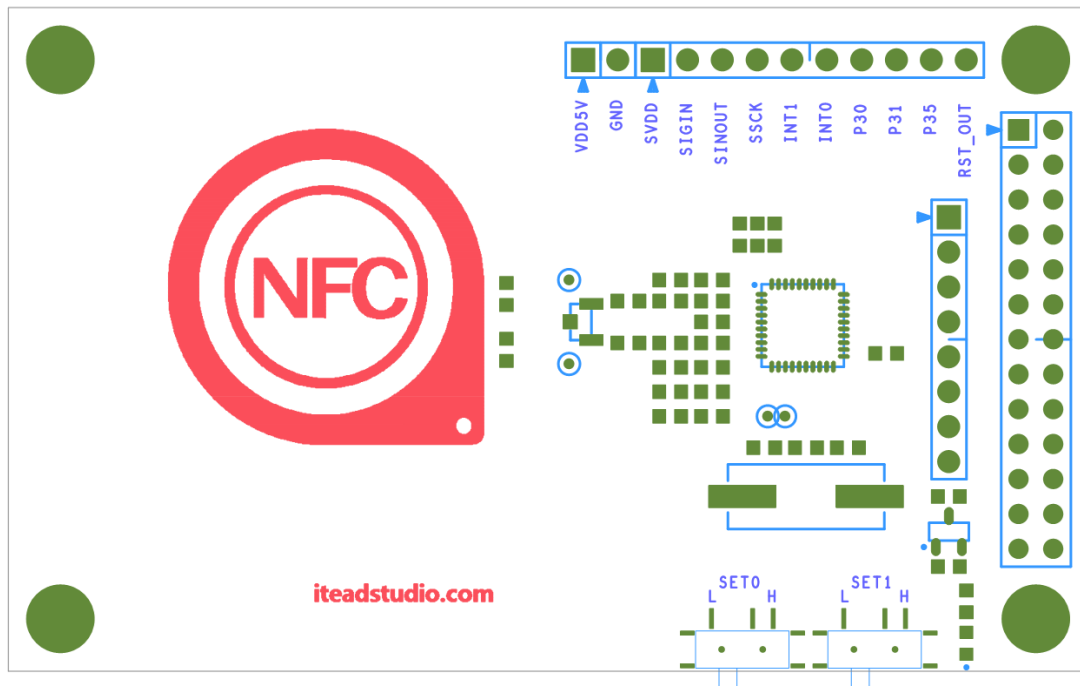
- Longest effective communication distance of 3 cm
- Supports switching of SPI, IIC and UART interface.
- Can be used for 13.56M non-contact communication
- Compatible with ISO14443 Type A and Type B standards

## Specifications:

IC	NXP PN532
Operating Voltage	3.3V
Power Supply Voltage(recommended)	3.3~5.5V
Max Supply Current	150mA
Working Current(Standby Mode)	100mA
Working Current(Write Mode)	120mA
Working Current(Read Mode)	120mA
Indicator	PWR
Interface	SPI Interface, Std Raspberry Pi 20pins Interface



## Hardware



There are two slide switches on the board for selection of interface mode:

	SET0	SET1
UART	L	L
SPI	L	H
IIC	H	L

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## Software

### 1. Arduino Library

You can download Arduino NFC Library, unzip and place it in the corresponding catalogue in Arduino IDE software, and then you can use the example in the library directly.

This library only supports SPI mode. (PN532 NFC Module. The original library provides API for reading Passive Target ID of Mifare Card/Tags. This is enough for card/tag identification purpose. We have added APIs for authentication, reading from and writing to Mifare Cards/Tags. The software library only provides low level functionality. Users have to implement NFC application layer (if required).

### 2. Raspberry PI Library

For downloading address of Raspberry PI PN532\_SPI Library, details about installation of library and operation documents, please refer to: <http://blog.iteadstudio.com/to-drive-itead-pn532-nfc-module-with-raspberry-pi/>.