

# PN532 NFC RFID Module V3 Reader Writer Near Field Communication For Child Education kit

## Product Description

NFC module for educational experiment, which are for school supplies

- NFC is a popular technology in recent years.
- Almost all the high-end phone in the market support NFC.
- 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 centimeters.
- For electronics geeks, we also want to use NFC technology to make our own things.
- So we build this NFC RFID module.
- PN532 is very popular in NFC area.
- We almost break out all the IO pins of NXP532 on this module. Users could easily connect and play.
- On this module, I2C is the data Interface by default. With our Sensor Shield, it is very easy to plug and play. However, if users want to use other interface such as UART or SPI, this module also makes it easy to break out those pins.

NFC model for Educational STEAM Kit, which use in High school, primary school student.

- 1、Gilt PCB and Small dimension and easy to embed into your project
- 2、Support I2C、SPI and HSU (High Speed UART), Change between those modes
- 3、Support RFID reading and writing

Support P2P communication with peers

Support NFC with phone

- 4、Typical Operating Distance have been updated to 5cm~7cm reading distance
- 5、Work in NFC Mode or RFID reader/writer Mode
- 6、RFID reader/writer supports:
  - 1) 1k, 4k, Ultralight, and DesFire cards
  - 2) ISO/IEC 14443-4 cards such as CD97BX, CD light, Desfire, P5CN072 (SMX)
  - 3) Innovision Jewel cards such as IRT5001 card
  - 4) FeliCa cards such as RCS\_860 and RCS\_854
- 7、Plug and play
- 8、Built in PCB Antenna, with 4cm~6cm communication distance
- 9、On-board level shifter, Standard 5V TTL for I2C and UART, 3.3V TTL SPI
- 10、Work as RFID reader/writer
- 11、Work as 1443-A card or a virtual card
- 12、Exchange data with other NFC devices such as smartphone

