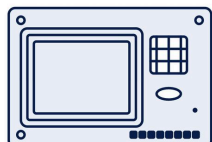




RC522 RFID Reader-Writer Module, 13.56 MHz, SPI (Development Board)

Model — · Brand: Identium



A small 13.56 MHz reader-writer board built around the RC522 reader IC, with an SPI interface, a PCB antenna and a pin header, for prototyping card readers on Arduino-compatible boards, ESP32 and Raspberry Pi. Reads and writes ISO 14443A cards such as MIFARE Classic and NTAG-type tags at a few centimetres.

KEY FEATURES

- **RC522 reader IC, 13.56 MHz, ISO/IEC 14443A**
- **SPI interface on an 8-pin header; 3.3 V supply and logic**
- Reads and writes MIFARE Classic 1K/4K and reads NTAG-type Type 2 tags
- PCB antenna on the board; read range a few centimetres, typical for the class
- Sold for prototyping; ask us before building a product around it

APPLICATIONS

Student and maker projects

Prototype door and locker readers

Attendance prototypes

Vending and kiosk prototypes

Teaching labs

SPECIFICATIONS

Reader IC	RC522
Frequency	13.56 MHz (HF)
Protocol	ISO/IEC 14443A
Cards read	MIFARE Classic 1K/4K (read/write); NTAG213/215/216 and other Type 2 tags (read, and write with suitable library support)
Interface	SPI, up to 10 Mbit/s per the public datasheet; I ² C and UART exist on the IC but are not brought out on every board
Supply	3.3 V DC; logic levels 3.3 V (use level shifting with 5 V boards)
Header	8 pins: SDA/SS, SCK, MOSI, MISO, IRQ, GND, RST, 3.3V, typical for the class
Antenna	PCB loop antenna on the board
Read range	A few centimetres, typical for the class; depends on the tag
Does not read	125 kHz cards, ISO 15693 labels, UHF tags
Supplied	Module only unless stated; sample cards quoted separately