

# RFID Module

## TECHNICAL DATA SHEET

The RFID module is a highly integrated reader/writer device for contactless communication at 13.56MHz. This Module supports ISO/IEC 14443 A/MIFARE and NTAG. The internal transmitter is able to drive a reader/writer antenna designed to communicate with ISO/IEC 14443 A/MIFARE cards and transponders without additional active circuitry. The receiver module provides a robust and efficient implementation for demodulating and decoding signals from ISO/IEC 14443 A/MIFARE compatible cards and transponders. RF22 support series of high-speed contactless communication, two-way data transmission rate up to 848kbit/s. The RF522 supports MF1xxS20, MF1xxS70 and MF1xxS50 products.

### Specifications:

| S.No | Description          | Specification                             |
|------|----------------------|---|
| 1    | Product Category     | RFID Card reader                          |
| 2    | I/P Supply Voltage   | 12V DC @1A                                |
| 3    | Interface Type       | RS-485                                    |
| 4    | Reader Frequency     | 13.56MHz                                  |
| 5    | Range of Detection   | 5cm                                       |
| 6    | Dimensions           | 125mm x 64mm                              |
| 7    | Supported card Types | MIFARE S50, S70, Ultralight, Pro, DESFire |



### Features:

- Typical operating distance in Read/Write mode up to 50 mm.
- Supports MF1xxS20, MF1xxS70 and MF1xxS50 encryption in Read/Write mode.
- Supports ISO/IEC 14443 A higher transfer speed communication up to 848 kBd.
- Supports ISO/IEC 14443 A/MIFARE and NTAG.

### Applications:

- Access management
- Tracking of goods
- Tracking of persons and animals
- Toll collection and contactless payment
- Machine readable travel documents
- Airport baggage tracking logistics
- Timing sporting events
- Tracking and billing processes