



This mini RFID reader module is a self-contained multi-protocol 13.56MHz OEM module. It provides a low power, high performance and cost-effective platform designed to enable any device with RFID reader technology.

This 13.56MHz RFID M1 mini module includes firmware for easing integration and providing customer with a significant cost-performance advantage. It supports future tag protocols, security features and customized enhancements. The mini RFID reader module consumes little power; the power consumptions are 50uA at Sleep mode, 15mA at Idle mode and 60mA at Scan mode. It has a baud rate range of 4800bps to 57600bps and features both internal and external antennae. Individual results may vary with environment.

Key Features

- ✓ Tagnostic™
- ✓ Simple and intuitive API
- ✓ Efficient HW/ SW design
- ✓ Variety of tag vendor choices
- ✓ Easy to embed
- ✓ Low power consumption
- ✓ Fast integration / time to market
- ✓ Low cost and small size
- ✓ UART (TTL), I2C, SPI
- ✓ Configurable power schem



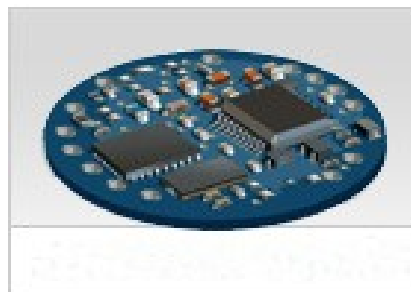


Technical Specifications

| Product name | Memory(bits) | Manufacturer | Protocol |
|--------------------|-----------------------------|------------------------|-------------|
| Tag-It HF-I | 2K | Texas instruments | ISO15693 |
| I Code SL2 | 1k | Philips | ISO15693 |
| My-d | 2.5k | Infineon | ISO15693 |
| LRI64 | 64k | ST microelectronics | ISO15693 |
| LRI512, LRI12K | 0.5k, 2k | ST microelectronics | ISO15693EM |
| 4135 | 2.2k | EM microelectronics | ISO15693 |
| PicoTag | 2k,16k | Inside contactless | Proprietary |
| Mifare | 1k, 4k(byte) | Philips, infineon | ISO14443A |
| Mifare ultra light | 0.5k | Philips | ISO14443A |
| Gem wave | ID only | Tagsys | Proprietary |
| Tag-It HF | 0.25k | Texas Instruments | Proprietary |
| I Code SL1 | 0.5k | Philips | Proprietary |
| AT88RF319 | 32k | Atmel | ECMA-319 |
| Frequency | 13.56 MHz +/- 7kHz | | |
| Physical size | Diameter 25.4, height 2.8mm | | |



| | |
|--------------------------------|--|
| | Sleep mode - 50uA |
| Current consumption | Idle mode - 15mA |
| | Scan mode - 60mA |
| Supply voltage | 3.2V to 6.0V |
| Antenna | Internal or external |
| | 50ohm port |
| Host communication | UART (TTL): 4800bps to 57600bps |
| Interfaces / data rates | 12C up to 400kHz |
| | SPI up to 3MHz |
| Transponder communication rate | 26 kbps ISO15693 |
| | 106 kbps ISO 14443A |
| Accessories | EA1 external antenna(94mm x 94mm) |
| Effective range | Internal antenna, 48mm x 76mm ISO15693 transponder: 5.0cm |
| | Internal antenna, 38mm x 22.5mm ISO 15693 transponder: 3.5cm |
| | (Individual results may vary with environment) |





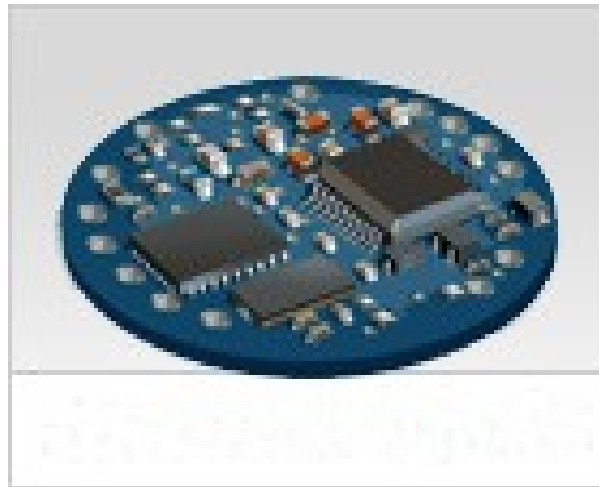
GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

13.56MHz RFID M1 mini module(713005)



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