

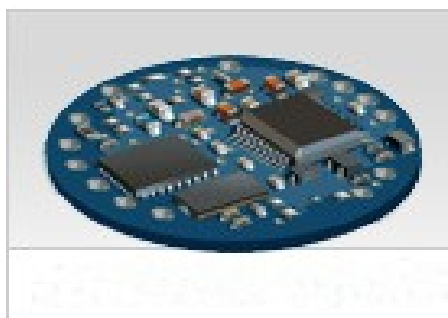


This mini RFID reader module is a self-contained multi-protocol 13.56MHz OEM module. It provides a low power, high performance and cost-effective platform designed to enable any device with RFID reader technology.

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		



Current consumption	Sleep mode - 50uA
	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)





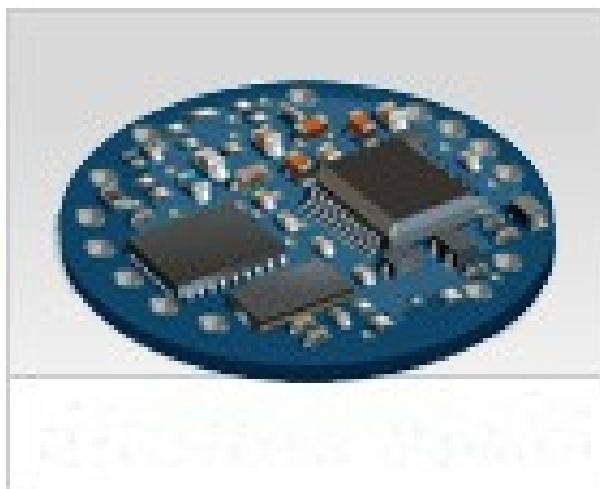
GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

13.56MHz RFID M1 mini module(713005)



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