



This RFID reader module is suitable for various applications from anti-counterfeiting to patient safety that share common requirements for tag support, protocol, performance and security.

This RFID reader module operates at 13.56MHz and is compatible Miniscule footprint - 49% smaller than a business card with a wide variety of RFID tags. Based on the same security standard used by the U.S. Department of Defense (DoD) and financial sector, it provides optimal performance for RFID embedded applications. This high frequency RFID reader module offers software adjustable host interfaces including UART (TTL), SPI and USB. It also includes a simple and intuitive API for encryption algorithms and key storage. What's more, seven general purpose I/O ports are available for input from and control over peripheral devices.

Key Features

- ✓ Miniscule footprint - 49% smaller than a business card
- ✓ Greatest tag compatibility with Tagnostic® and TagIQ™
- ✓ Minimal power consumption and maximum read range
- ✓ Software Adjustable Host Interfaces: UART (TTL), SPI, USB
- ✓ 7 General Purpose I/O
- ✓ Peripheral devices for encryption algorithms and key storage
- ✓ Simple and intuitive API

Application

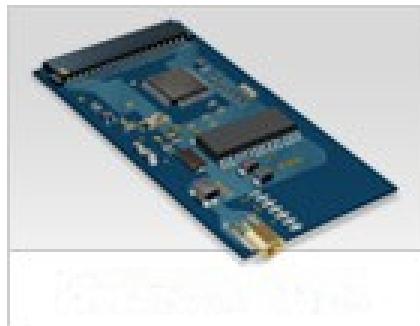
- ✓ Anti-counterfeiting
- ✓ Contactless Payment
- ✓ Handheld Reading/Encoding
- ✓ Item-Level Inventory Management



- ✓ Patron Management
- ✓ Patient Safety
- ✓ Printing/Encoding

Transponder Support

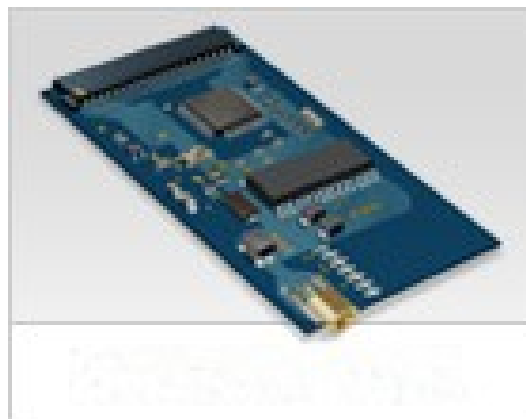
Air-interface 2	Manufacturer	Product Name	Memory (bits)
ISO14443A	NXP (Philips)	MIFARE Ultralight	512
ISO14443A	NXP (Philips), Infineon	MIFARE	8k, 32k
ISO14443A	NXP (Philips)	DESFire	32k
ISO14443B	Atmel	AT88RF020, AT885C CryptoRF1	2k, 1k to 64k
ISO14443B	ST Microelectronics	SR176, SRI512, SRIX4K	176, 512, 4k
ISO15693	Fujitsu	MB89R118	16k
ISO15693	Infineon	my-d (limited)	2k
ISO15693	NXP (Phillips)	I-CODE SL1, SL2 ICS10, SL2 ICS20	512, 136, 1k
ISO15693	ST Microelectronics	LRI-64,-512,-2K, -2KS	64, 512, 2k
ISO15693	TagSys	C370	1k
ISO15693	Texas Instruments	Tag-it HFI Std, Pro, Plus	256, 2k
Proprietary	NXP (Philips)	I-CODE SL1 ICS30, EPC SL2 ICS10	136, 512





Technical Specifications

Frequency	13.56MHz \pm 7kHz
Physical CF MH length	66mm/70mm
Width	36mm/53mm
Height	5mm/9mm
Weight	8.7g/10.5g
Environment storage temperature	-20°C to 85°C
Operating temperature	-10°C to 70°C
Supply voltage	5.0V \pm 10%





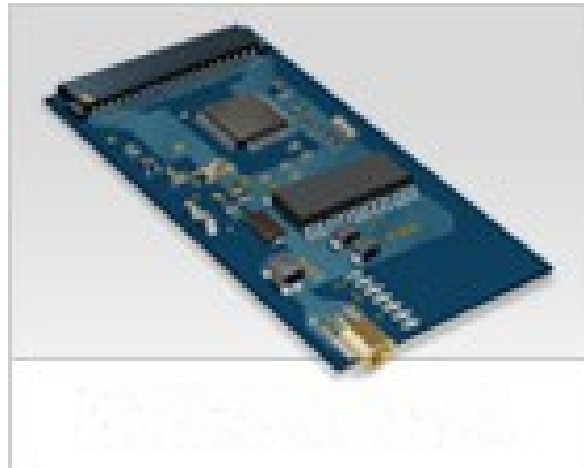
GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

13.56MHz RFID M2 Module (713008)



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GAOComm.com

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GAOEmbedded.com

GAOResearch.com

Toll Free (USA & Canada)

1-877-585-9555

All Other Areas

416-292-0038

Dial Ext.601 for Sales
Ext.602 for Other Inquiries

China: 86-519-80691090
86-519-80691089

sales@GAORFID.com