



The feature-rich and easy-to-use HF RFID reader module is specially designed to serve three distinct market applications which are product authentication, access control and contactless payment.

The high frequency RFID reader module includes a 9.6kbps to 38.4kbps UART (TTL) host interface, four general purpose I/O ports and an intuitive API. It features easy integration, low power consumption, various tag compatibility and intelligent software. The industrial-leading reader module is specially designed for such applications as product authentication, access control and contactless payment. When used with an external antenna, it has a read range of 8cm to 14cm depending on the specific application.

Features

- ✓ Small footprint – about the area of three standard postage stamps
- ✓ Retest tag compatibility and performance with Tagnostic® and TagIQ™
- ✓ Minimal power consumption
- ✓ UART (TTL) host interface
- ✓ 4 general purpose I/O ports
- ✓ Simple and intuitive API
- ✓ 4 mounting holes
- ✓ 4 programmable GPIO pins





Common Specifications

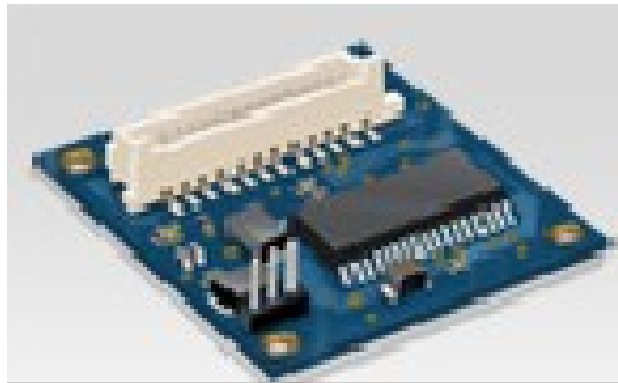
Frequency	13.56MHz ±7kHz	
Antenna options	2-pin header, output for external connection, internal or 50	
Host interface	UART (TTL) 9.6kbps to 38.4kbps	
I/O connector	24-pin header or 8	
Standards	Pre-scan testing1, FCC 15.225 EN 300-330, EN 301-489 EN 61000-4-3	
Power	5.0V ±10%	
Output power	50mW to 200mW	
Power consumption	Sleep mode	4mA
	Idle mode	75mA
	Scan mode	130mA (230mA with internal antenna)
Operating temperature	-10°C to 70°C	
Storage temperature	-20°C to 85°C	
Dimensions	39mm × 36mm × 11.3mm (5mm without connectors)	





Technical Specifications

Specification	Product authentication	Contactless payment	Access control
Air interface protocol	ISO 15693	ISO 14443A/B (parts 1-3) Mastercard PayPass (Magnetic Stripe Protocol Ver3.1) Visa PayWave (Magnetic Stripe Data application Protocol Ver1.4.2) American Express ExpressPay (Proximity ICC Payments Application Level Protocol Ver1.7) Discover contactless payments (discover Network RF contactless payment Ver1.01)	ISO 14443A/B (part 1-3) NXP MIFARE (Ultralight, Classic 1k, Classic 4k) NXP DESFire Infineon MIFARE Classic 1k SLE66R35 ST SRI512 ST SRIX4k
Read range	14cm with 85mm × 85mm external antenna or 4.5cm with internal antenna	8cm with 85mm × 85mm external antenna	8cm with 85mm × 85mm external antenna
Security	AES-128, 192 and 256 SHA-2	Supports security as part of proprietary payment protocols	DESFire MIFARE





GAO RFID Inc.

A Member of GAO Group

Celebrating Over 15 Year of Innovation

Product Overview

13.56MHz RFID Reader Module (713010)



GAO Group

GAORFID.com

GAOTek.com

GAORFIDAssetTracking.com

GAOComm.com

GAOInstruments.com

GAOFiberOptics.com

GAOEmbedded.com

GAOResearch.com

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