



This ultra high frequency RFID reader module is specially designed for applications that share common requirements for tag support, protocol, performance and security.

This RFID reader module is well-suited for use in anti-counterfeiting, handheld reading or encoding, printing, item-level inventory management, patron management, access control and asset management systems. This practical RFID reader module, model 716001, features high performance, high security and efficient power. It offers investment protection through a flexible and forward-compatible platform. The UHF module supports Alien, STMicro and ISO 18000-6B/6C standards. With a 6dBi linearly polarized antenna, it provides a maximum read distance of 3.5m.

Applications

- ✓ Anti-counterfeiting
- ✓ Handheld reading/encoding
- ✓ Item-level inventory management
- ✓ Printing and encoding
- ✓ Patron management
- ✓ Asset management
- ✓ Access control





Technical Specifications

Frequency	Compliance	Current consumption
862MHz to 955MHz	FCC 15.247 EN 302-208	Sleep mode: 5 mA
	EN 301-489 EN 61000-4-3	Idle mode: 170 mA
	AS/NZS 4268:2003 DGT LP002	Scan mode: 800mA @ 27 dBm
	HKTA 1049 IDA TS SRD	650mA @ 24 dBm
	MIC 2005-50 RoHS	500mA @ 21 dBm
Physical CF3 MH3	Transponder	Supply voltage
Length: 66mm x 70mm	Communication rate	4.5V to 5.5 V
Width: 36mm x 53mm	EPC C1G1: slow & fast modes	
Height: 5mm x 9mm	EPC C1G2 / ISO 18000-6C: 40, 80	
Weight: 10.7g/ 12.5g	kbps	
	ISO 18000-6B: 40 kbps	
Environment	Air-interface protocols	Output power
Storage temperature: -30°C to 85°C	EPC C1G1	Adjustable 10-27 dBm @ 0.1 dB steps
	EPC C1G2 / ISO 18000-6C	Power accuracy: ±1 dBm
Operating temperature: -20°C to 70°C	ISO 18000-6B	
	ISO 18000-6A5	
Host communication	Antenna options	Singulation performance
Interfaces/ data rates	50 Ω port with MMCX (female)	Up to 50 tags/second (25-35 typical)
TTL: 9.6-115.2 kbps	VSWR 1.5:1 or lower for best	
SPI mode 1: up to 10MHz	performance	
USB 2.0 full speed: 12 Mb/s		
I2C: 100/400 KHz		
Peripheral I/O connection	Read range	
7 programmable GPIO pins CF	Approx. 3.5m with 6 dB linearly	
4 programmable GPIO pins MH	polarized antenna	



GAO RFID Inc.

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Product Overview

Ultra High Frequency RFID Reader Module (716001)



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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