

66mm L x 36mm W x 5mm H

Features & Benefits:

- Fast integration and time-tomarket
- Unparalleled investment protection
- Cost-effective and highly scalable
- Miniscule footprint
- Peripheral devices for encryption algorithms and key storage
- Common Blade technology for maximum design and solution flexibility
- Greatest tag compatibility, with TagIQ
- Minimal power consumption and maximum read range
- Software Adjustable Host Interfaces: UART (TTL), SPI, USB, I²C
- 7 General Purpose I/O Pins
- Simple and intuitive API

Multi-Protocol, Secure HF RFID Reader

ThingMagic M2 combines High Frequency (HF) tag and protocol support and outstanding performance in an embedded reader/writer module. With industry-leading privacy protection and anti-counterfeiting/anti-tampering technology, the M2 includes standards-based security that is used in the defense and financial services industries. M2 can read and write to transponders based on the ISO14443 (parts 2, 3, and 4) and ISO15693 air interface and communications standards. It also supports standard encryption algorithms (DES, 3DES, and AES), secure functions (SHA and MD5), and an internal Pseudo-Random Number Generator (PRNG).

ThingMagic M2 is performance-optimized for best-in-class output power (200mW), noise reduction, and power management. M2 uses advanced Universal Reader Architecture and SkyeAPI to abstract frequency, protocol, and tag selection and automate functions from the application. With advanced tag technology, it recognizes unique characteristics of each tag to maximize read/write performance.

Its small size enables this module to fit into almost any new or existing Original Equipment Manufacturer (OEM) design.

Applications

- Product Authentication and Anti-Counterfeiting
- Handheld Reading/Encoding
- Inventory Management, Item Level Tagging
- Consumables
- Patron Management
- Asset Tracking
- Label Printing/Encoding



ThingMagic M2

Ordering Information				
Module-CF	SM-M2-CF			
Module-MH	SM-M2-MH			
M2 Evaluation Kit	EV-M2-00			
Physical	EV WE GO			
Dimensions	CF: 66mm length, 36mm w	idth 5mm height: MH: 70mi	m length, 53mm width, 9mm height	
Weight	CF: 8.7 grams; MH: 10.5 grams			
Frequency		13.56 MHz +/- 7 kHz		
Air Interface	Manufacturer	Product Family	Tags	
	NXP	ICODE	SLIX-/S/L, SLI-/S/L	
	TagSys	370 Series	370L-/HL/DL, 370S-DM	
100 1000	ST Micro	Long Range	LRI/1k/2k, LRIS/2k/64k	
ISO 15693	Infineon	Vicinity	SRF55V/01P/02P/10P/02S/10S	
	Fujitsu	FerVID	MB89R11/9B/8C	
	Texas Instruments	Tag-It	Standard, Pro, Plus	
	EM Micro	EM Series	EM4/033/133/233	
	NVD	MIEADE	Classic/1k/4k, Ultralight/C, DESFire	
ISO 14443A	NXP	MIFARE	EV1	
	Verayo	Vera	M1, M4	
ISO 14443B	ST Micro	Short Range	SRI/2k/4k/512, SRIX4k, SRT512	
Antenna	31 1411010	Onon range	ONUZIO INOTZ, ONINAIN, ONITOTZ	
Options	Internal or 500 MMCV (for	asla) autaut for external con	naction	
	Internal or 50Ω MMCX (female) output for external connection			
External Range Vicinity	16 cm			
External Range Proximity	8 cm			
Data/Control Interface		100 =010		
Peripheral I/O Connection	7 programmable GPIO pins	, ISO 7816 smart card slot	(optional)	
Power Consumption				
Sleep Mode:	4 mA			
Idle Mode:	75 mA			
Scan Mode:	175 mA			
Host Interface, Data Rates				
UART (TTL):	9.6-115.2 kbps			
SPI:	Mode 1 up to 4 Mb/s			
USB:	2.0 Full Speed 12 Mb/s			
I ² C:	100/400 kHz			
Transponder				
Communication Rate	ISO 14443A: 106 kbps			
	ISO 14443B: 106 kbps			
	ISO 15693: 26 kbps			
Air Interface Protocols				
	ISO 14443 A/B (parts 2-4)			
	ISO 15693			
Compliance				
FCC Part 15.225				
EN 300-330, EN301-489, EN 61	000-4-3, RoHS			
AS/NZS 4268:2003				
DGT LP002				
HKTA 1035				
IDA TS SRD				
ETSI EN 300-330 (RED 2014/53	3/EU)			
Temperature				
Operating Temp	-10°C to 70°C			
Storage Temp.	-20°C to 85°C			

ThingMagic M2

Software & Security

SkyeAPI C/.NET API

Skyeware 4

SkveOS

SkyeSecurity Encryption DES,3DES, AES, MIFRARE and CryptoRF Support

SkyeSecurity Clone/Tamper Protection

Specifications subject to change without notice.

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

ThingMagic is the JADAK line of RFID products.

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