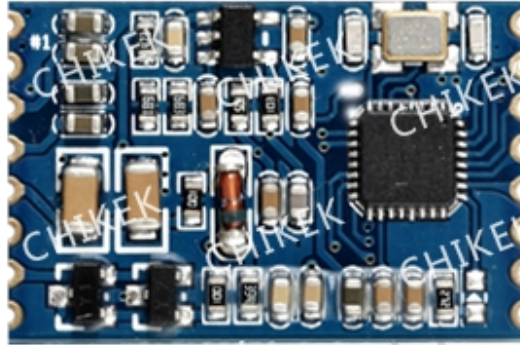


OEM LF Hitag 1&S Tag Read/Write Module

LF frequency, Hitag 1& S64/256/2048 tag supported, FDX-B



Key Features:

- Frequency available with 125KHz, 134.2KHz
- 3.3V ~ 5V DC Power supply, UART-TTL interface
- Compatible with ISO11784,11785 Standard , support FDX-B
- Support to Read/write Hitag 1 Tag, Hitag S64/ 256/2048 animal tag,
- Read UID of EM4100/4200, TK4100 cards;
- Available to format Hitag S series card to ID card or FDX-B animal ear tags format;
- External antenna, reading range up to 5~7 cm
- External LED&BUZ available(external driver circuit needed)

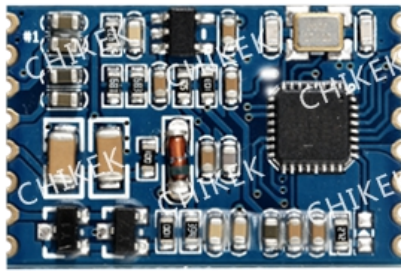
Introduction:

CHK103MT is one of OEM LF embedded read/write RFID Module, which special for Hitag 1 and Hitag S serial tag/animal ear tag, and it compliant with ISO/IEC 11784/11784 standard and FDX-B protocol.

This module is able to read and write Hitag 1 chip tag and HitagS series tags/ cards, and support to format Hitag S64/256/2048 tag as ID card or FDX-B , to make them for different applications in animal tags management, access control, Laundry Automation,etc.

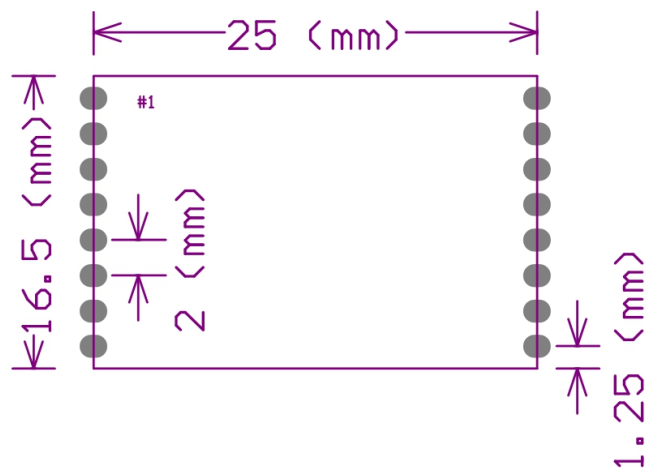
It equips with UART TTL interface , small in size and single-face laying components layout, which available for embedding RFID in various applications and OEM devices.

PIN Definition:



PIN	IOs	Type	Description
PIN1	GND	PWR	GND
PIN2	RST	Input	Low power reset
PIN3	VDD	PWR	DC 3.3V
PIN4	TVDD	PWR	Power for RF, DC 3.3 ~ 5V
PIN5	ANT-	PWR	ANT-
PIN6	RFU	/	RFU
PIN7	ANT+	/	ANT+
PIN8	RFU	/	RFU
PIN9	IO6	Output	External LED
PIN10	IO5	Output	External LED
PIN11	IO4	Output	A group of IO used for control full color RGB Light
PIN12	IO3	Output	
PIN13	IO2	Output	
PIN14	IO1	Output	External Buzzer
PIN15	TXD	Output	UART TX(TTL Level)
PIN16	RXD	Input	UART RX(TTL Level)

Dimension:



Technical Parameters:

Electrical Specification

Power supply	DC 3.3V~5V
Power consumption	< 45mA
Operation frequency	125KHz & 134.2KHz
Baudrate	9600~115200 bit/s (default 9600bps)
Interface	UART TTL
Antenna	External, stamp-hole
Reading range	50- 100mm (depends on tag and antenna size)

Mechanical Specifications

Dimension	25mmx16.5mmx2.8mm (LxWxH)
Weight	3g
Material	FR-4, Blue
Model	CHK103MT

Environmental Conditions

Operation temperature	-20°C~ +80°C
Storage temperature	-40°C~ +85°C
Humidity	Relative humidity 5%~95%

Supported Standard/ Tags

	EM4100, EM4200, TK4100
ISO/IEC 11784/11785	Hitag 1, Hitag S 64, Hitag S 256, Hitag S 2048

SDK information

Demo software	Windows, C# program language
Files	Comprotocol document API document User Manual Demo.exe

Note: Other functions and details to be continued and upgraded