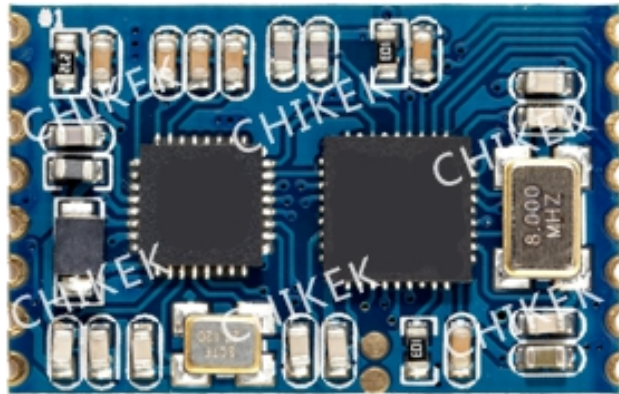


Multi-Protocol Standard Read/Write Core Module

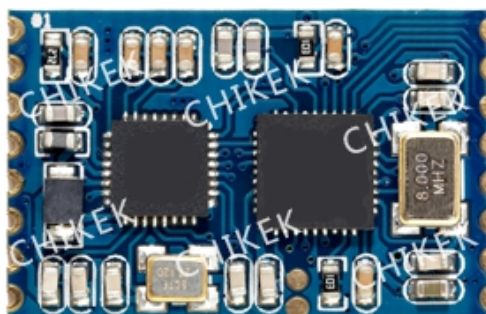
ISO14443A/B, ISO15693 Standard



Key Features:

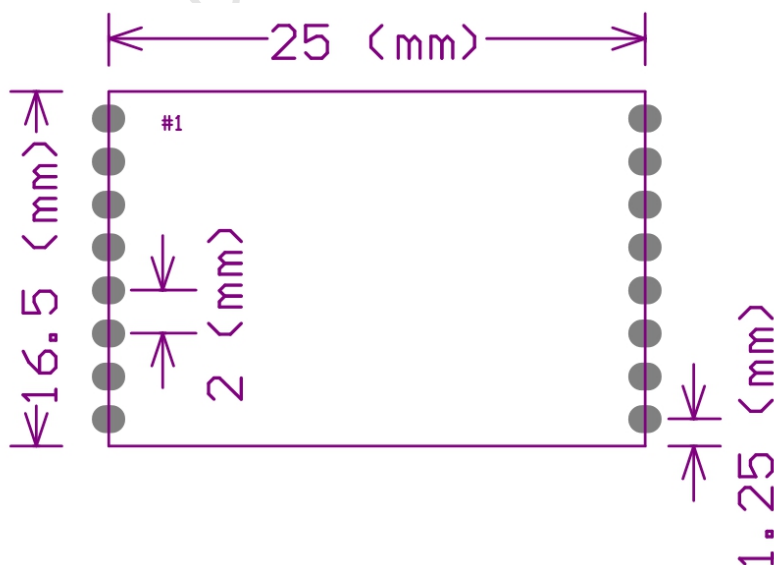
- DC3.3V ~5V power supply, UART-TTL interface;
- Compliant with ISO14443A/B, ISO15693 standard,
- Support MIFARE® Classic 1K /4K, MIFARE Ultralight®/Ultralight® C, MIFARE® PRO, ISO14443A-4 contactless CPU card, I CODE SLI/SLI S, TI 2048, Fujitsu MB89R112A metal tags etc
- External antenna, reading range up to 5 ~ 7cm
- External LED and BUZ available (external driver circuit needed)

PIN Definition:



PIN	Signal	Type	Description
PIN1	GND	PWR	GND
PIN2	RST	Input	Low power reset
PIN3	VCC	PWR	DC 3.3V ~ 5V
PIN4	TVDD	PWR	Power for RF, DC 3.3 ~ 5V
PIN5	ANT-	PWR	GND
PIN6	RFU	Input	RFU
PIN7	ANT +	Output	Antenna output
PIN8	RFU	Output	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	Max current: <50mA, Standby current: <1 mA
Operation frequency	13.56MHz
Baudrate	9600~115200 bit/s (default 9600bps)
Interface	UART TTL
Antenna	External, stamp hole
Reading range	Up to 4 cm ~ 10 cm(depends on antenna and cards)

Mechanical Specifications

Dimension	25mmx16.5mmx2.8mm (LxWxH)
Weight	3g
Material	FR-4, Blue
Model	CHK303MT

Environmental Conditions

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

Supported Standard/ Tags

ISO14443A	Read/write: MIFARE® Classic 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, NTAG 21x Read UID only: Read UID only of all other ISO14443A RFID tags
ISO14443B	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
ISO15693	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

SDK information

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

Note: Other functions and details to be continued and upgrade