

HCC-T10-DC Card Reader Module

Introduction

HCC-T10-DC is a 3-in-1 reader / writer module, including contact smart cards, contactless cards and magnetic stripe cards. The HCC-T10-DC comes with a detachable antenna, contact smart card connector, magnetic head and 4 SAM sockets.

The reader module is designed for fast and easy integration into embedded systems, such as vending machine, secure access control, ATM, kiosks, gaming machines, scanner and POS terminal.

Features

- USB 2.0 full speed
 - HID compliance
 - Firmware upgradable
- RS232 interface
- 4 LED indicators
- Support buzzer
- Contact smart card interface
 - ISO7816 T=0 CPU card
 - ISO7816 T=1 CPU card
- Contactless smart card interface
 - Compliant with ISO14443 part 1-4, Type A, Type B
 - Read/write Mifare Classics
- 4 SAM card sockets
- Magnetic Stripe Reader
 - Support 1/2/3 tracks reading
 - Bi-directional
- OS support:
 - Windows XP/7/8/10
 - Linux

Support Card Types

(1)MCU Cards

HCC-T10-DC2 operates with MCU cards that follow:

- T=0 or T=1 protocol
- ISO 7816-Compliant Class A, B, C (5V, 3V, 1.8V)

(2)Memory-based Smart Cards

HCC-T10-DC operates with memory-based smart cards that follow:

- Address: Rm. 201, 2/F, Bldg. 8, Changyuan New Material Port, No. 2 Gaoxin C. 1st Ave., Yuehai St., Nanshan Dist., Shenzhen, P.R.China
Post Code: 518057 Tel: 86-755-86655162 Fax: 86-755-8606-9640 Web: www.szhcct.com



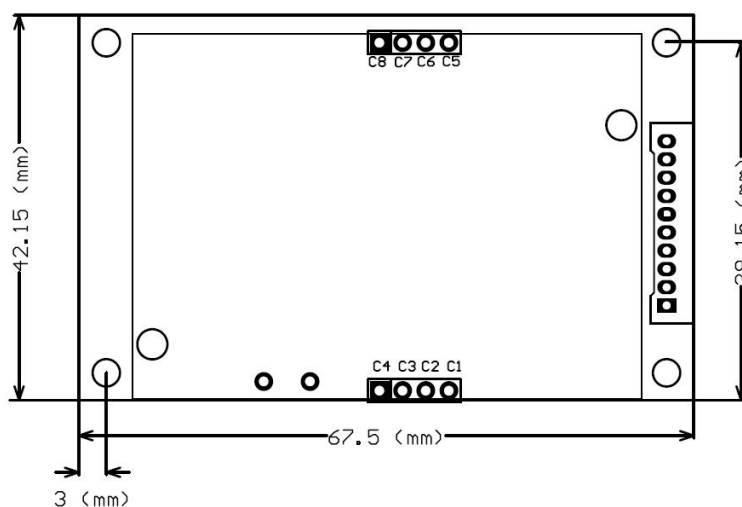


Figure 5-4 Contact Board

Specifications

Dimensions	Main Board	82.5mm (L) x 50.2mm (W) x 13.7mm (H)
	Antenna Board	82.5mm (L) x 50.2mm (W) x 9.2mm (H)
	LEDs Board	70mm (L) x 16mm (W) x 8.5mm (H)
	Contact Board	70mm (L) x 16mm (W) x 9.1mm (H)
	MSR Board	90.3mm (L) x 21.1mm (W) x 24mm (H)
Weight	Main Board	28g
	Antenna Board	14.8g
	LEDs Board	4.6g
	Contact Board	22.8g
	MSR Board	19.6g
Power	Power Source	USB
	Supply Voltage	5 V DC
	Supply Current	Max.500mA
Connectivity	RS232	3 lines Rxd, Txd and GND without flow control
	USB	USB 2.0 Full Speed
Contact Smart Card Interface	Number of Slots	1 ID-1 Slot
	Standard	ISO/IEC 7816 Class A, B, C (5V, 3V, 1.8V)
	Protocol	T=0; T=1; Memory Card Support
	Supply Current	Max. 50 mA
	Short Circuit Protection	(+5) V /GND on all pins
	Card Connector Type	ICC Slot 0: Landing
	Clock Frequency	4 MHz
	Smart Card Read /Write Speed	9,600-115,200 bps
Contactless Smart Card	Card Insertion Cycles	Min. 200,000
	Standard	ISO-14443 A & B part 1-4
Contactless Smart Card	Protocol	Mifare® Classic Protocols, T=CL

Interface	Smart Card Read /Write Speed	106 kbps
	Operating Distance	Up to 50 mm
	Operating Frequency	13.56 MHz
SAM Card Interface	Number of Slots	4 ID-000 slots
	Card Connector Type	Contact
	Standard	ISO/IEC 7816 Class B (3V)
	Protocol	T=0; T=1
	Smart Card Read /Write Speed	9,600-115,200 bps
Magnetic Stripe Card Interface	Standard	ISO 7811 Track 1/2/3, Bi-directional
	Reading	Supported
Built-in Peripherals	Buzzer	Monotone
	LED Status Indicators	4 LEDs for indicating status (from left most: blue, yellow, green, red)
Operating Conditions	Temperature	-10°C – 50°C
	Humidity	5% to 93%, non-condensing
Certifications/ Compliance	ISO/IEC 7816, ISO/IEC 14443, ISO/IEC 7811, Contact PBOC 3.0 L1, Contactless PBOC 3.0 L1, Contact EMV L1, Contactless EMV L1	
Supported Operating Systems	Windows® 98, Windows® ME, Windows® 2000, Windows® XP, Windows® 7, Windows® 8.1, Windows® 10, Linux®	

Model Description

Type	Model	Supported Card
HCC-T10-DC	DC1	NFC Card
	DC2	Magnetic Card, IC Contact Card
	DC3	Magnetic Card, IC Contact Card, NFC Card

Picture

