

RFID

SMART RFID MODULE



YHY522 RFID module RFID/NFC Reader/Writer Module

Data sheet

Version 6.0
Dec, 2018



1. Features

- ▲ Can detect clone UID card
- ▲ Small size and built-in antenna on board
- ▲ Auto scan for presence of tags and upload data
- ▲ NFC NDEF text commands
- ▲ Encrypted EEPROM to store up to 40 groups of keys
- ▲ Contactless operating frequency 13.56 MHz
- ▲ Supports ISO14443A ,Mifare[®] Classic1K,Mifare[®] Ultra Light, NTAG213
- ▲ RS232(TTL) Interface, baud rate up to 230400bps,default 19200bps
- ▲ Typical Operating Distance: 0 ~5cm
- ▲ Operating Voltage : DC 3.3V
- ▲ 1 LED indicator, 2 programmable I/O pins
- ▲ Size: 58mm × 35mm × 6mm
- ▲ Weight:10g

2. Application information

YHY522 can be use on vending machine, secure access, parking, payment, ticketing, leisure, member ship, time & attendance, biometrics, IT-access, Identify, loyalty, Counter, data storage and fast data collection systems.

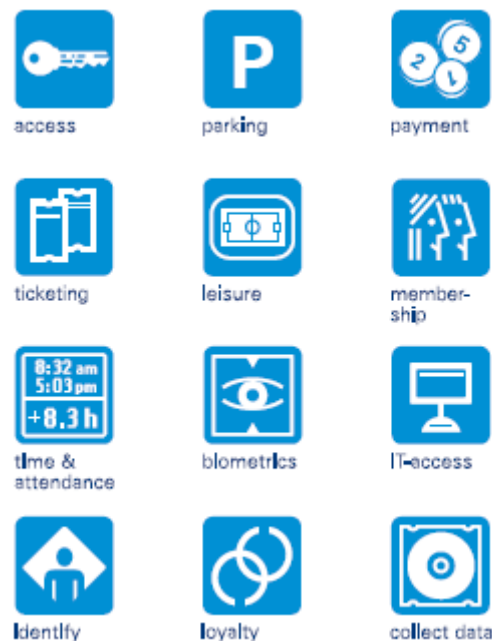


Figure 1. YHY522 Applications

3. Quick reference data

Table 1: Quick reference data

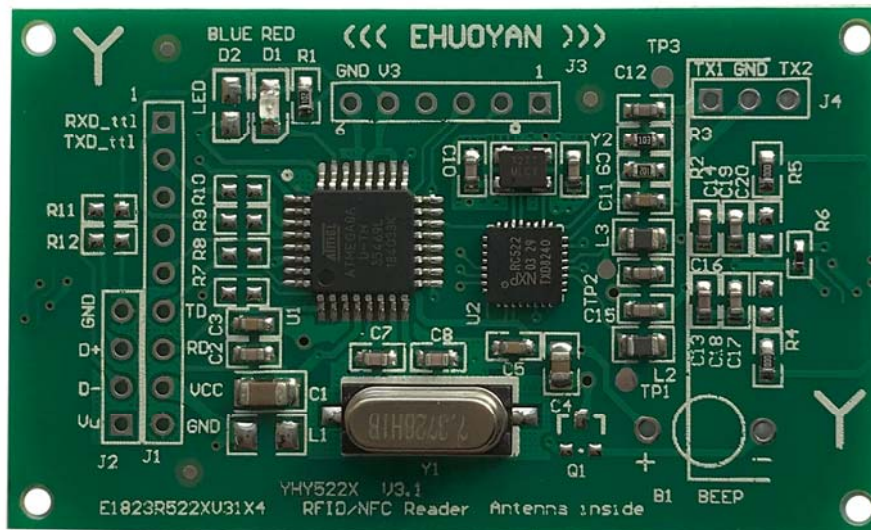
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{CC}	Supply voltage	GND=0V	2.7	3.3	3.6	V
I _{HPD}	Hard Power-down Current		-	-	10	uA
I _{ASD}	Antenna Soft-down	V _{CC} =3.3V		15	20	mA
I _{VCC}	Supply Current	V _{CC} =3.3V		43	65	mA
D _{RW}	Read/Write card Distance	V _{CC} =3.3V	0		60	mm
T _{amb}	Operating ambient temperature		-25		+85	°C

4. Ordering Information

Table 2: Ordering Information

Type Number	Package	
	Name	Description
YHY522	YPHDR9-4	

5. Package outline



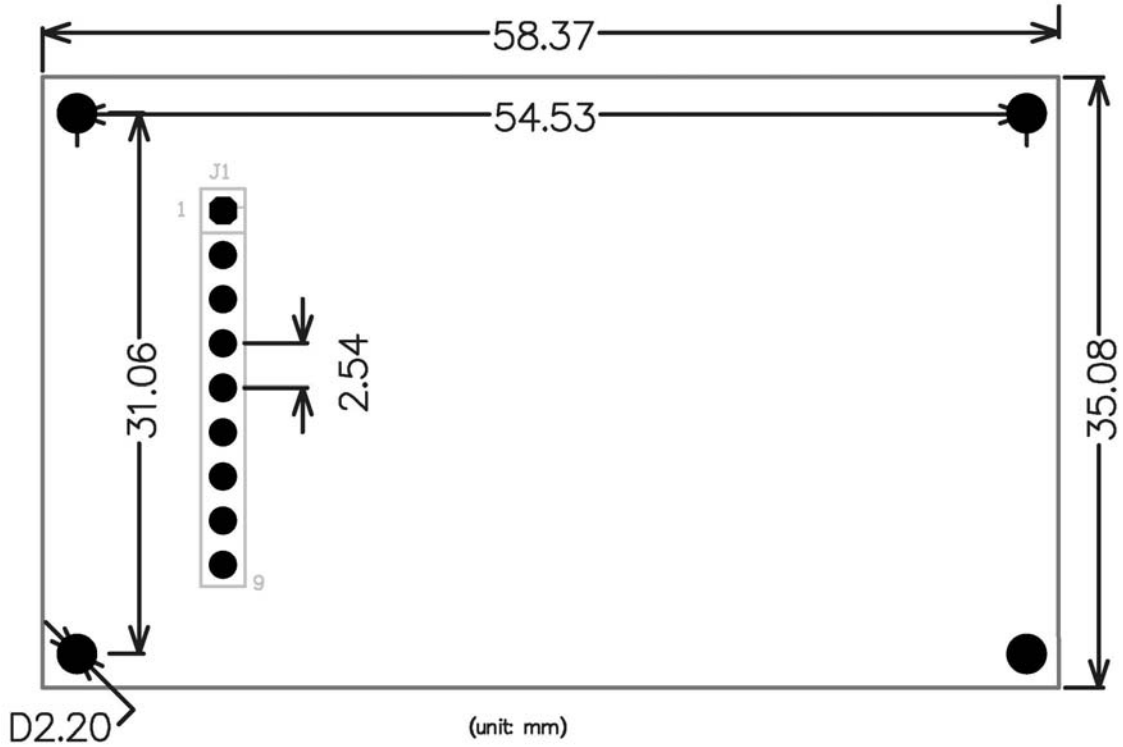


Figure 3– YHY522 Top view



Figure 4– YHY522 Side View

6. Contact information

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