

RFID

SMART RFID MODULE



YHY522R RFID module
RFID/NFC Reader/Writer Module

Data sheet

Version 1.0
Jan, 2019

1. Features

- ▲ Can detect clone UID card
- ▲ Small size and built-in antenna on board
- ▲ Auto scan for presence of tags in and out and upload data
- ▲ NFC NDEF text commands
- ▲ Contactless operating frequency 13.56 MHz
- ▲ Supports ISO14443A ,Mifare[®] Classic1K,Mifare[®] Ultra Light, NTAG213
- ▲ RS232 Interface, baud rate up to 230400bps,default 19200bps
- ▲ Typical Operating Distance: 0 ~6cm
- ▲ Operating Voltage : DC 5V
- ▲ 1 LED indicator
- ▲ Size: 42mm × 26mm × 7mm
- ▲ Weight:12g

2. Application information

YHY522R can be used on vending or game machine, secure access, parking, payment, ticketing, leisure, member ship, time & attendance, biometrics, IT-access, Identify, loyalty, Counter, data storage and fast data collection systems.

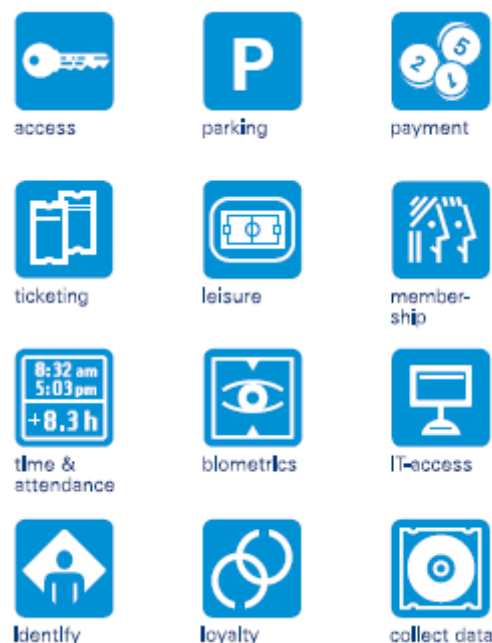


Figure 1. YHY522R Applications

3. Quick reference data

Table 1: Quick reference data

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	Supply voltage	GND=0V	2.7	5.0	7.0	V
I_{HPD}	Hard Power-down Current		-	-	100	uA
I_{ASD}	Antenna Soft-down	$V_{CC}=5.0V$		15	20	mA
I_{VCC}	Supply Current	$V_{CC}=5.0V$		43	65	mA
D_{RW}	Read/Write card Distance	$V_{CC}=5.0V$	0		60	mm
T_{amb}	Operating ambient temperature		-25		+85	°C

4. Ordering Information

Table 2: Ordering Information

Model Number	Name
YHY522R	RFID module

5. Package outline

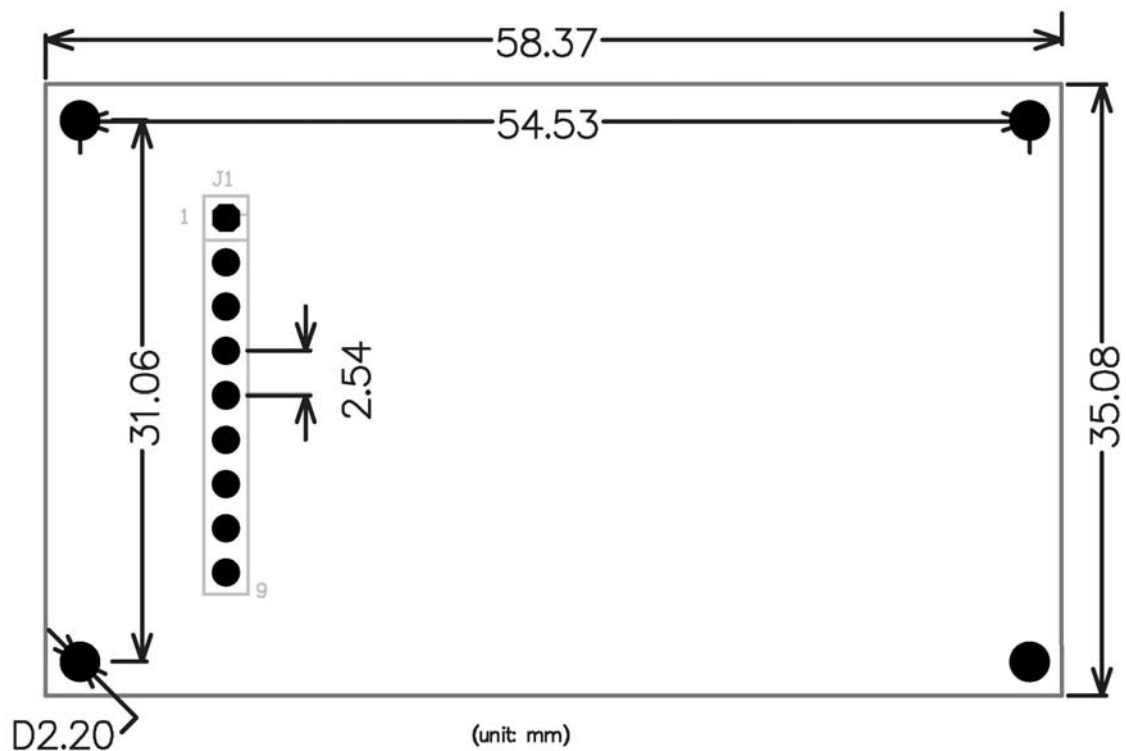
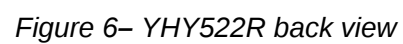
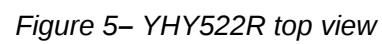
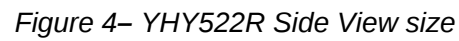


Figure 3– YHY522R Top view size



6. Contact information

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