

RFID

SMART RFID MODULE



YHY521X RFID module RFID/NFC Reader/Writer Module

Data sheet

Version 1.0
June, 2018

1. Features

- ▲ Can detect clone UID card
- ▲ Small size and external antenna
- ▲ 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(TTL) Interface, baud rate up to 230400bps,default 19200bps
- ▲ Typical Operating Distance: 0 ~4cm
- ▲ Operating Voltage : DC 3.3V
- ▲ 1 LED indicator
- ▲ Size: 42mm × 26mm × 6mm
- ▲ Weight:8g

2. Application information

YHY521X 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.

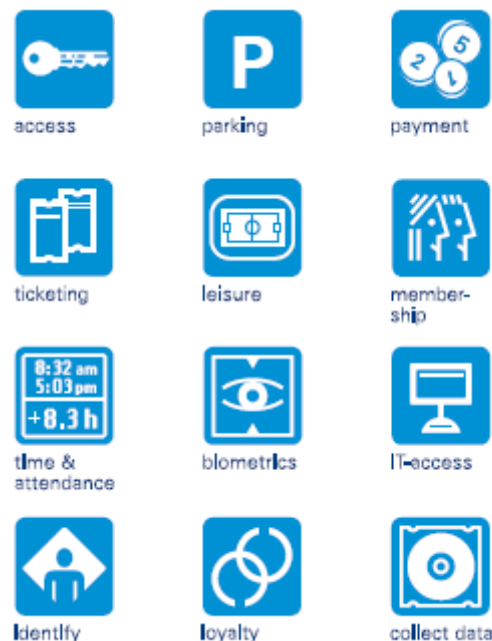


Figure 1. YHY521X Applications

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

Model Number	Name
YHY521X	RFID module

5. Package outline

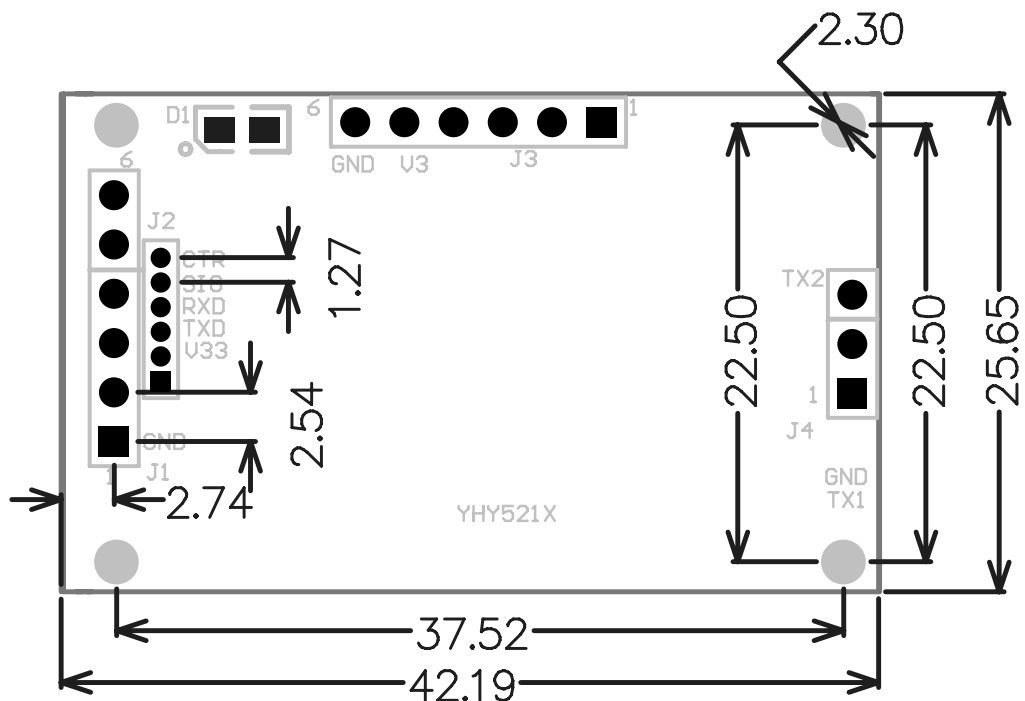


Figure 3– YHY521X Top view size



Figure 4– YHY521X Side View size

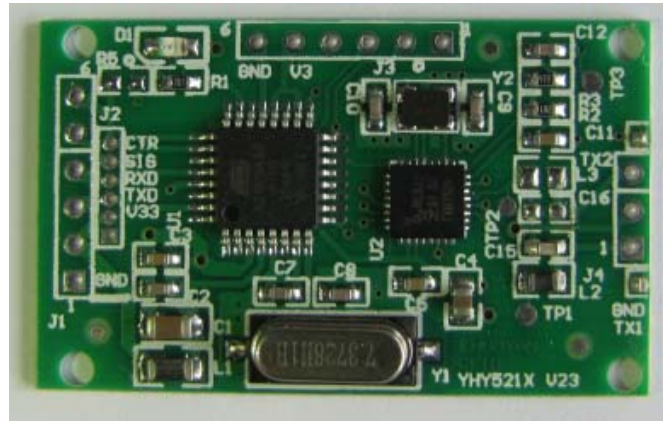


Figure 5– YHY521X top view

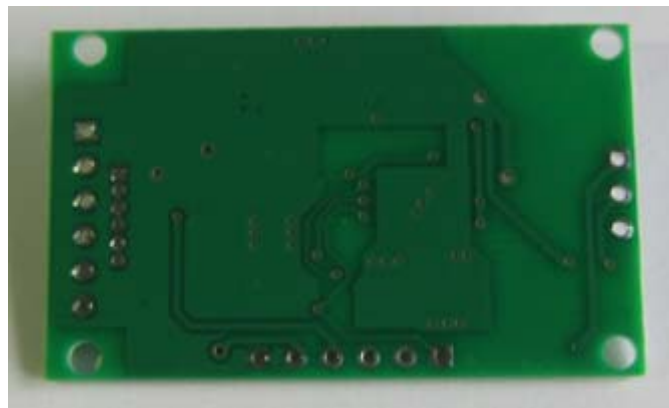


Figure 6– YHY521X back view

6. Contact information

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