ID-20LF Reader/Write Module User Manual



ID Innovations

Advanced Digital Reader Technology
-----Better by Design

Summary

The ID-20LF series contactless card Read/Write module is based on 3 types 125khz read and write chip. They come with the choice of internal antenna (optional) or external antenna and are suitable and for embedded applications and general Electronic Devices. The ID-20LF-EM series are user friendly and can be controlled by command from a UART (serial port). Functions are selected by a Pin jumper allowing full control of all functions.

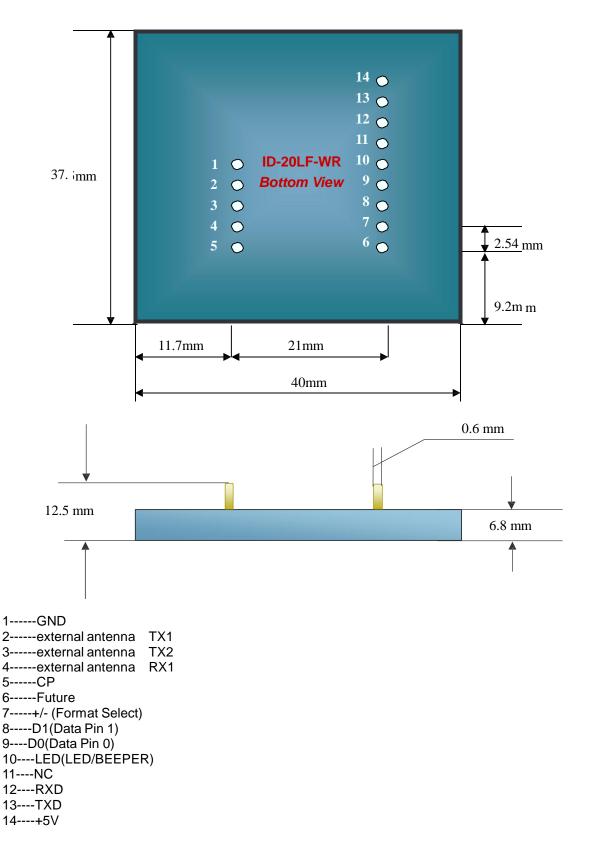
Characteristic

- 2 options antenna setting: internal antenna (optional) or external antenna (standard)
- ISP(In System Program)function
- Small outline
- Low power consumption

Specification

- Supports Hitags, EM4205/4305,
- Model: ID-20MFIA (with internal antenna) ID-20MFWA (without internal antenna)
- Frequency: 125KHz
- Rear/Write distance: external antenna—up to 50-60mm
- External antenna inductance: 345uH
- Read/write speed: <0.3s</p>
- Communication Port: (RS232) TTL / 9600, N,8,1
- Power: 5V DC
- Current consumption: <50mA PK<100MA</p>
- Weight: 80g
- Operating temperature: -20°C --- +75°C
- Storage temperature : -40°C --- +85°C
- Certification:CE, C-TICK, ROHS, FCC

Dimensions and Pins (bottom view)



Pin Description & Output Data Formats

Pin.NO	Description	ASCII	Magnet Emulation	Wiegand26
			(optional)	(optional)
1	Zero Volts and	GND 0V	GND 0V	GND 0V
	tuning Capacitor			
	Ground			
2	To External antenna	To External antenna	To External antenna	To External antenna
	TX1	TX1	TX1	TX1
3	To External antenna	To External antenna	To External antenna	To External antenna
	TX2	TX2	TX2	TX2
4	To External antenna	To External antenna	To External antenna	To External antenna
	RX1	RX1	RX1	RX1
5	Card Present	No function	Card Present	No function
6	Future	Future	Future	Future
7	Format Selector (+/-)	Strap to GND	Strap to Pin 10	Strap to +5V
8	Data 1	No function	Clock	One Output
9	Data 0	No function	Data	Zero Output
10	LED(LED/BEEPER)	Beeper / LED	Beeper / LED	Beeper / LED
11	No Connection	No Connection	No Connection	No Connection
12	RXD	TTL RXD	No function	No function
13	TXD	TTL TXD	No function	No function
14	DC Voltage Supply	+5V	+5V	+5V