125K-RW-TTL-PCB

125K RFID reader/writer PCB with UART –TTL interface

General Description

This is a low cost high performance, slim size RFID reader/writer PCB module with UART – TTL interface .It is suitable for all embedded RFID design projects.

Features

- **Reader function :**
  Support 125Khz EM4100 or compatible ISO card
- **Writer function :**
  - Backup or duplicate the EM4100 or compatible card
  - customer made ID card with own or continuous serial no
  - memory and password protection for higher security application
- R/W card memory map :
  64 bit UID + 32bit password protection + 7 Block x 32bit(data)
- external antenna design ;
- Simple protocol for application program development
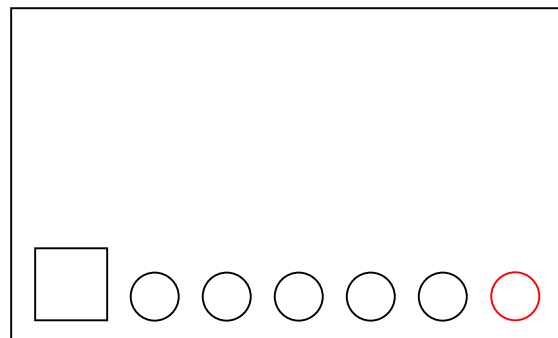- Free SDK (demo program , protocol and user manual)

Specifications

- **Power :** 5 Volts +/-0.15V DC
- **Interface:**   UART – TTL
- **Read range**   (3-5)cm with ISO card size
- **Antenna parameter**   L=490uH, Q<40
- **operation Frquency**   125KHz +/- 2.5%
- **Support Tag :** read only EM4100 or compatible tag
- **Support Tag :** read/write EM4205/EM4305 or compatible
- **Operating temperature**   -0C to + 85C
- **PCB size :** (30x25x3)mm
- **antenna size :** (60x60)mm or customer made

Pin Assignment

Pin out	UART (TTL level)
1	Vcc (5 Volt)
2	Ground
3	Ground
4	TX – serial transmit
5	RX – serial receive
6	Reset

Pin 1