51488 contactless induce module

51488 is induce module which frequency is 125KHZ, professional used to read EM card and TEMIC card. Output though RS232 also WEIGEN CODE 26.

When use as EM card, is R/O, the information from DATA-OUT PIN will output though DATA0&DATA1.

When use as TEMIC card, is R/O, the information from DATA-OUT PIN will output though DATA0&DATA1.

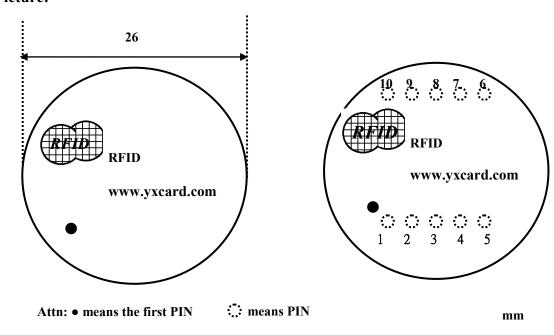
I. Product specification:

module	51488					
size	26(diameter)×8.5(thick) m/m					
Operating frequency	iency AM 125KHZ					

II. Technical parameter:

Operating voltage	VCC=5V			
Consumption current	40mA(5V) nominal			
Operating temperature	25mA sink/source			
Operating temperature	-40°C ∼85°C			
Storage temperature	-40°C ~85°C			
Storage humidity	5∼95% RH			

III. Picture:



IV. Pin definition:

PIN	NAME	I/O	SYMBLE	MIN	TYP	MAN	DESCRIPTION
1	CP	О	Vo-H	Vcc-0.2V	Vcc	Vcc+0.2V	Low Pulse 140ms
			Vo-L	-	GND	Vss+0.2V	

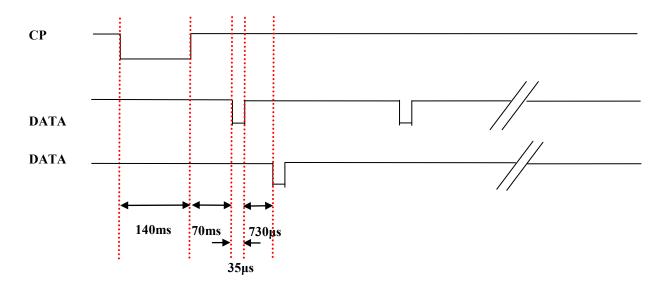
2	CP	О	Vo-H	Vcc-0.2V	Vcc	Vcc+0.2V	Low Pulse 140ms	
			Vo-L	ı	GND	Vss+0.2V		
3	DATA1	O	Vo-H	Vcc-0.2V	Vcc	Vcc+0.2V	Digital data output	
			Vo-L	-	GND	Vss+0.2V		
4	DATA0	O	Vo-H	Vcc-0.2V	Vcc	Vcc+0.2V	Digital data output	
			Vo-L	-	GND	Vss+0.2V		
5	WRITE	I					Low active	
6	ASCII/WIEGAND	I					HI:ASCII	
							DEFAULT:Wiegand26	
7	GLED	О	Vo-H	Vcc-0.2V	Vcc	Vcc+0.2V	High active	
			Vo-L	-	GND	Vss+0.2V	_	
8	RLED	О	Vo-H	Vcc-0.2V	Vcc	Vcc+0.2V	Low active	
			Vo-L	-	GND	Vss+0.2V		
9	VCC		Vcc	3.5V-	5V	5.25V	VCC	
10	GND						Ground	
10	GND						Ground	

V. WEIGEN CODE:

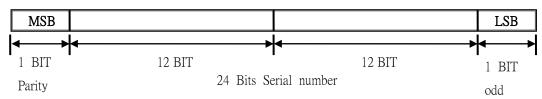
When CARDS came in, CP sends about 140 ms LOW PULSE.

When CARDS came in, CP delivering the signal about 70 ms firstly, and then send D0 & D1 signals.

1. Time sequence chat



2. Output format of data



- * 12Bits of MSB is even parity; 12Bit of LSB is odd. parity

VI. RS232(ASCII):

1. Output format

a.9600bps, N, 8, 2

b.PIN5: TX through from non-negative direction

c.PIN6: TX through negative-direction.

d. CHECKSUM: Make all of 10 bytes DATA do XOR calculate.

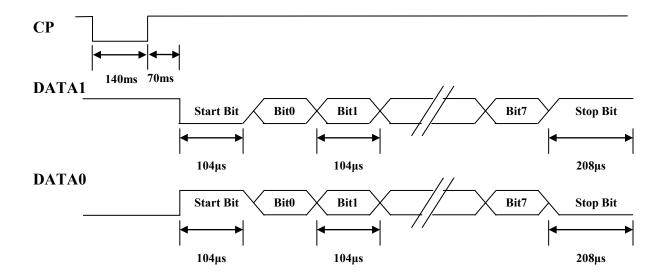
02	10 ASCII Data Characters	Checksum	03

Example: ID Number: 62E3086CED

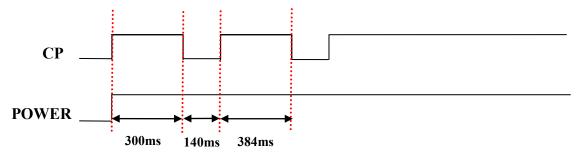
Output data: 36H \ 32H \ 45H \ 33H \ 30H \ 38H \ 36H \ 43H \ 45H \ 44H

Checksum: (62H) XOR (E3H) XOR (08H) XOR (6CH) XOR (EDH)=08H

3. Time sequence chat



VII. Reference:



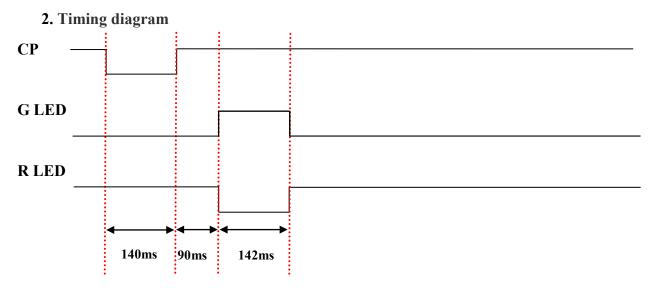
VIII. LED:

1. Material output format

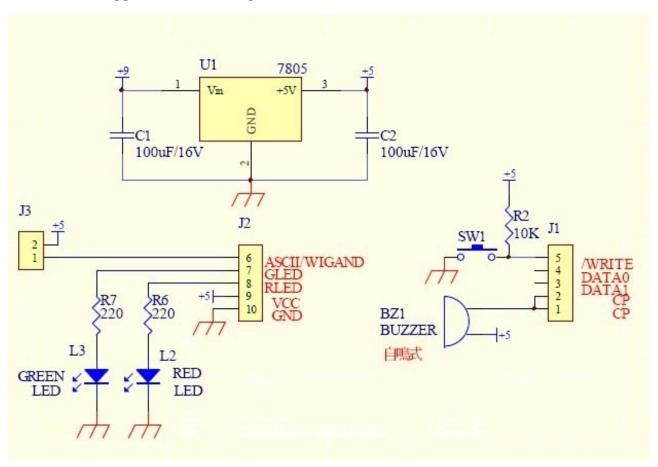
a. When CARDS came in, CP delivering the signal about 90 ms first, and then began to

send G LED signals (Normally is LOW)HI PULSE about 142ms

b. When CARDS came in, CP delivering the signal about 90 ms first, and then began to send R LED signals (Normally is HI)LOW PULSE about 142ms



IX. Reference application route map:



PS: Please pay attention to WRITE PIN wave form when use TEMIC Card.

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