GENERAL DESCRIPTION

125KHZ-RhombusEM202-A transceiver unit is designed for reading code from uem4100 compatible read-only tags and is a major component in RFID (Radio Frequency Identification) reader system. It can be applied in office/home security, personal identification, access control, anti-forgery interactive toy and production control systems etc.

FEATURES

- Latest fashion, beautifully designed
- Built-in transceiver antenna;
- Maximum effective distance up to 180mm;
- Less than 100ms decoding time;
- Low power dissipation with wide range single power supply;
- Support Wiegand26 and RSABA interface
- Support uem4100 compatible read only tags (64Bits, Manchester coding) ;.
- Built-in bi-color LED and buzzer

INTERFACE DESCRIPTION

NUMBER	COLOR	SYMBOL	DESCRIPTION
1	Red	VCC	Positive Power Supply
2	Black	GND	GND
3	Green	WD0 (DATA)	Wiegand Data 0 output or ABA output
4	White	WD1 (CLK)	Wiegand Data 1 output or ABA CLK output
5	Brown	HOLD (CP)	Wiegand hold output or card present in ABA
6	Yellow	SEL	Wiegand/ABA Format option Hang: Wiegand format Connected to GND:ABA format output
7	Blue	LED	The color of LED Changing when connected to GND
8	Gray	BUZ	The buzzer ringing when connected to GND

CHARACTERISTICS

. Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	15	V
Operating Temp	T_{OPR}	0~+70	℃
Storage Temp	T_{STR}	-55~+125	℃

. Electrical and Mechanical Specification

Under T_A= 25℃，VCC= +12V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	10		15	V
Current Supply	I_C		65	80	mA
Operation Freq.	F_{REQ}		125		KHZ
Effective Distance*	DIS	0	150	180	mm
Decoding Time	T_{DEC}		65	100	ms

Effective Distance depends on tags and operating environment.

Note: Rhombus' products must work with linear regulated power supply, and other kinds of power supply are prohibited.