

GENERAL DESCRIPTION

RhombusMF912—D transceiver unit is designed for reading the Serial Number Of the Mifare I compatible IC cards 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 and production control systems etc.

FEATURES

- Built-in transceiver antenna;
- Maximum effective distance up to 75mm;
- Less than 200ms decoding time;
- Low power dissipation with single power supply;
- RS232 interface;
- Support Mifare I compatible IC cards;
- Built-in bi-color LED and buzzer;

INTERFACE DESCRIPTION

NUMBER	COLOR	SYMBOL	DESCRIPTION
1	Red	VCC	Positive Power Supply
2	Black	GND	GND
3	Brown	TXD	Serial data output
4	Yellow	GND	GND

STX (02 HEX)	DATA (10 Decimal)	CR	LF	ETX (03 HEX)
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* Baud Rate: 9600, N, 8, 1

CHARACTERISTICS

Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	15	V
Operating Temp.	T _{OPR}	0~+7	
Storage Temp.	T _{STR}	-55~+12	

Electrical and Mechanical Specification

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	10	12	15	V
Current Supply	I _C		80	12	mA
Operation Freq.	F _{RE}		13.56		MHZ
Effective Distance	DIS	0	50	75	mm
Decoding Time	T _{DEC}		12	20	ms

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

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.