

GENERAL DESCRIPTION

RhombusMF902—C 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;
- ABA Track2 (8H) 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	Green	DATA	Output as DATA in ABA
4	White	CLK	Output as CLK in ABA
5	Brown	C	Output as CARD PRESENT in ABA
6	Blue	LED	Input, internally pulled up to +5V. Connected to
7	Grey	BUZ	Input, internally pulled up to +5V. Connected to

CHARACTERISTICS

- Absolute Maximum Ratings

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

- Electrical and Mechanical Specification

Under T_A= 25°C, VCC= +12V unless specified

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

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.