

## GENERAL DESCRIPTION

RHOMBUS MF 301R 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;
- Keyboard emulation without external power;
- Support Mifare I compatible IC cards;
- Built-in LED and buzzer.

## INTERFACE DESCRIPTION

PC/AT keyboard emulation interface.

## CHARACTERISTICS

- Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	6	V
Operating Temp.	TOPR	0~+70	℃
Storage Temp.	TSTR	-55~+125	℃

- Electrical and Mechanical Specification

Under  $T_A=25^{\circ}\text{C}$ ,  $V_{CC}=+5\text{V}$  unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	4.5	5	5.5	V
Current Supply	IC		80	120	mA
Operation Freq.	FREQ		13.56		MHZ
Effective Distance*	DIS	0	50	75	mm
Decoding Time	TDEC		120	200	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.