GENERAL DESCRIPTION

125KHZ-RhombusEM202-B 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 only connected to SYRIS NT-4 and NT-8 controller. It can be applied in office/home security, personal identification, access control, antiforgery, interactive toy and production control systems etc.

FEATURES

- Built-in transceiver antenna;
- Maximum effective distance up to 150mm;
- Less than 100ms decoding time;
- Low power dissipation with wide range single power supply;
- Support SYRIS RS485 interface protocol
- 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	R+	R+ output in RS485 interface
4	White	R-	R- output in RS485 interface

CHARACTERISTICS

. Absolute Maximum Ratings

ITEM	SYMBOL	VALU	UNIT
Power Supply	V_{CC}	15	V
Operating Temp	T_{OPR}	$0\sim+70$	℃
Storage Temp	T_{STR}	$-55\sim+125$	℃

. Electrical and Mechanical Specification

Under T_A=   25℃，VCC= +5V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	5		15	V
Current Supply	I_C		65	80	mA
Operation Freq.	F_{REQ}	100	125	150	KHZ
Effective Distance[*]	DIS	0	100	150	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.