

**FEATURES**

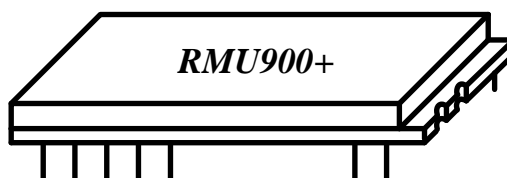
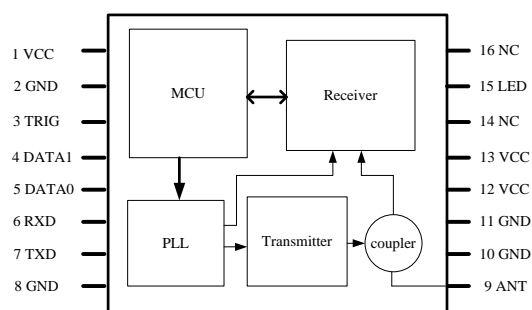
- 工作频率：840~960MHz（按需要频段定制）
- 支持协议：EPC C1 GEN2/ ISO 18000 -6C
- 低电压工作：+3.3V
- 模块化两种封装：表贴（28×25×2.5±0.1mm）和直插（46×19×4mm）
- 最大输出功率：27dBm
- 接口：UART、WIEGAND（暂不开放）

**APPLICATIONS**

- 手持设备
- 台式读写器
- 发卡器
- 一体机

**GENERAL DESCRIPTION**

RMU900+模块是超小型化的 UHF RFID 读写器核心部件，里面集成了 PLL、发射、接收、耦合器以及 MCU 等部件。用户只需要在模块的基础上作电源处理即可，可以很方便的通过 API 函数库控制模块工作。模块工作在低电压+3.3V，适合手持机用户开发。

**FUNCTIONAL BLOCK DIAGRAM**

**ORDERING INFORMATION**

ORDERABLE PART NUMBER	PACKAGE
RMU900+TE	SMD_EV1
RMU900+CHA	DIP_EV1

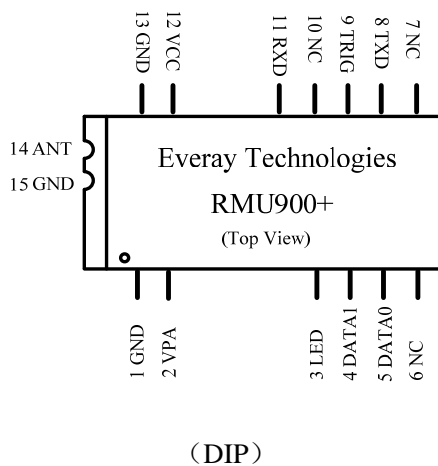
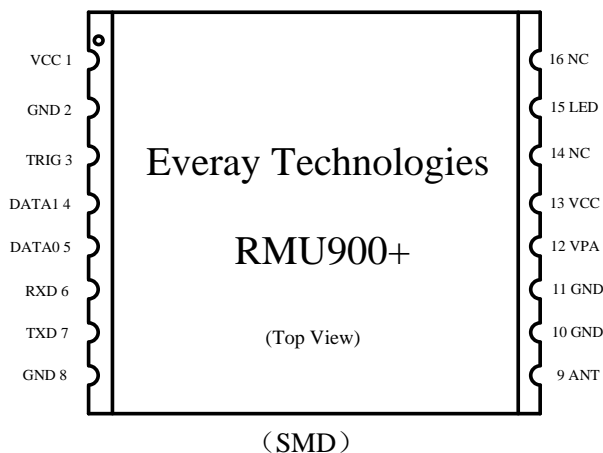
**SPECIFICATIONS**

VCC = 3.3V, TA = 25°C

	Conditions	Min	Typ	Max	Unit
<b>FREQUENCY</b>					
Frequency Range	According Customization	840	915	960	MHz
Frequency Step	According Customization		250		KHz
<b>OUTPUT</b>					
Output Power		10~27	Step=1dB		dBm
Output Load VSWR	Output Power = 26dBm			1.5	
<b>Temperature Range</b>					
Storage Temperature		-40		+85	°C
Operating Temperature	Output Power = 26dBm	-20		+70	°C
<b>POWER SUPPLY</b>					
Supply Voltage	Pout=26dBm, 50 Ω Load	3.25	3.3	3.35	V
Supply Current	Operating Temperature 25°C	600	650	700	mA

**ABSOLUTE MAXIMUM RATINGS**

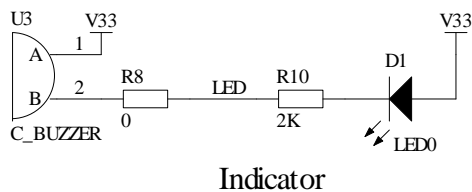
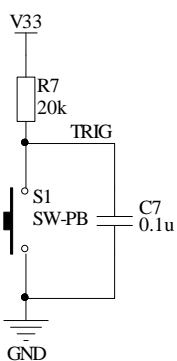
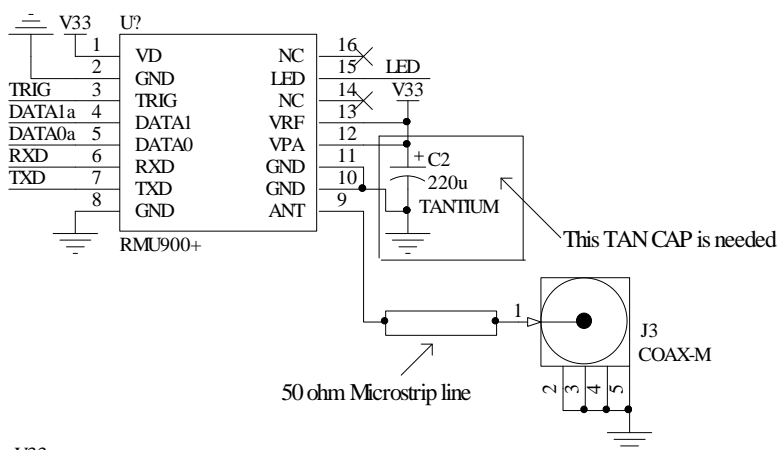
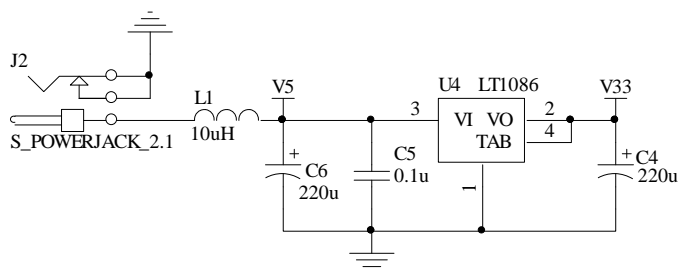
Parameter	Rating
Supply Voltage	-0.3 ~ +6V
Output Load VSWR	10:1
Operating Temperature	-20 ~ +70°C
Storage Temperature	-40 ~ +85°C

**PIN CONFIGURATION AND FUNCTION DESCRIPTIONS**


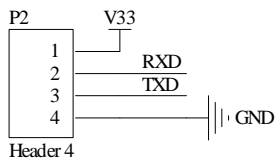
Name	Description
VCC	VCC, 3.3V, Power supply for MCU
GND	Device Ground
TRIG	External Trigger, The rising edge trigger, TTL compatibility
DATA1n <sup>(1)</sup>	WIEGAND26 data output, TTL compatibility, 暂不开放
DATA0n <sup>(1)</sup>	WIEGAND26 data output, TTL compatibility, 暂不开放
RXD	UART Receive Data, TTL compatibility
TXD	UART Transmit Data, TTL compatibility
ANT	Antenna pin, Internally Matched To 50Ω
VPA	VCC, 3.3V, Power supply for Amplifier
NC	Not used
LED	Indicator Signal for Reading Tag, Low when Reading a tag

(1) These pins are inverted. They should be connected to level shifter outside the module

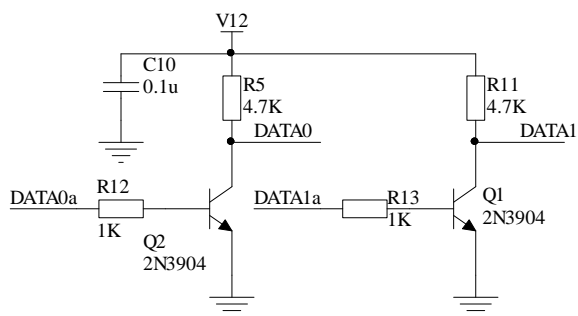
**APPLICATION SCHEMATIC**



**EXT Trigger**

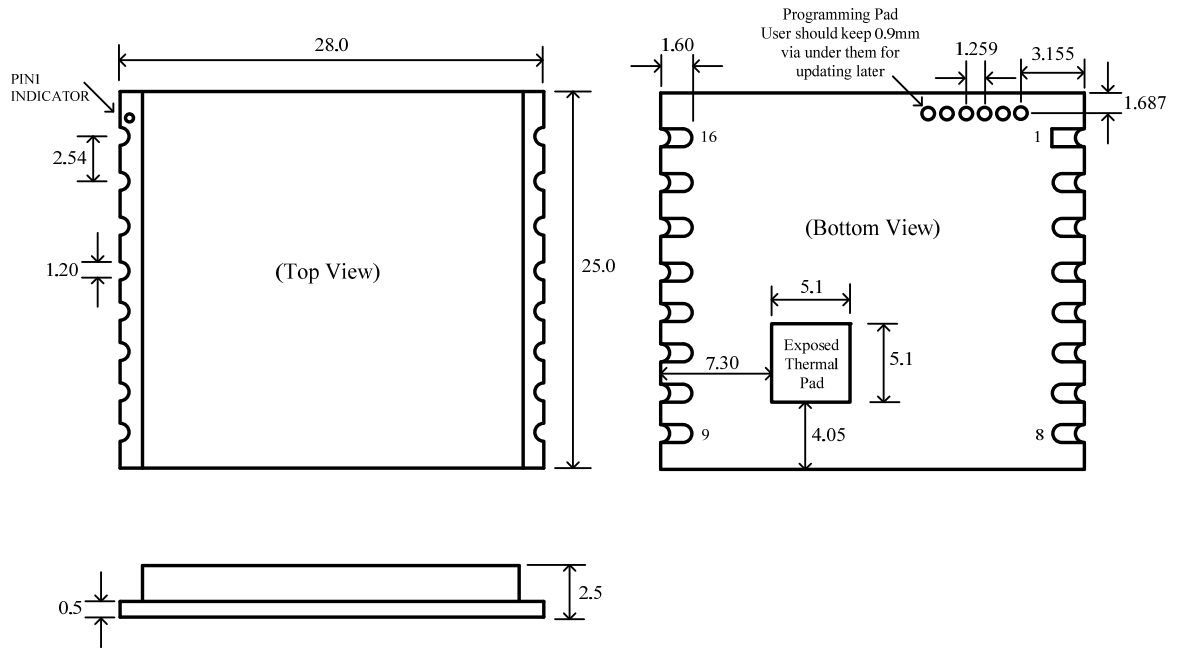


**UART**



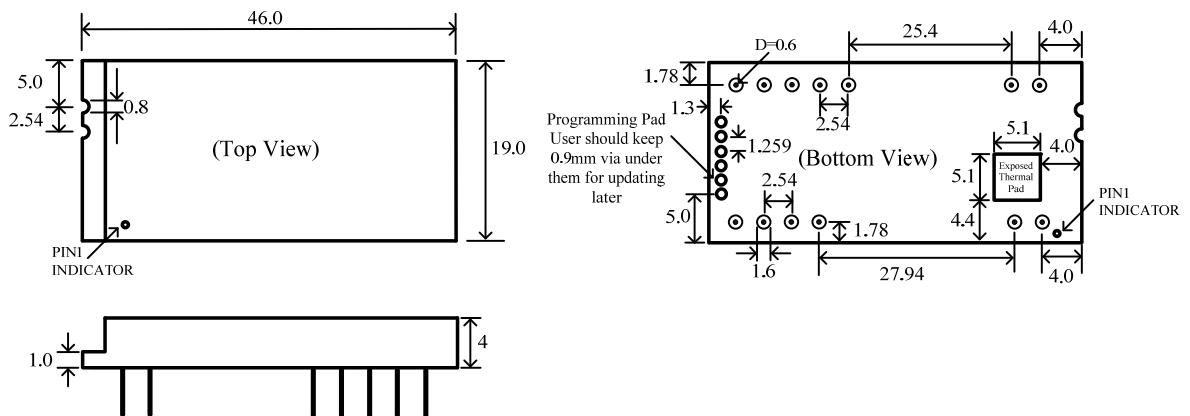
**WIEGAND**

**OUTLINE DIMENSIONS**



(SMD\_EV01)

Dimensions shown in millimeters



(DIP\_EV01)

Dimensions shown in millimeters