
Overview of the integrated antenna characteristics



Excellent read-tag performance	◆ Label identification is sensitive and stable. ◆ The stable identification distance is 1.5-2 m (9662 white card). ◆ Multi-label identification performance:> 50 labels. ◆ Label identification speed:> 50 pieces / s.
Solve the problem of fever thoroughly	◆ No external heat sink is required. ◆ Long-term continuous full load work at room temperature without heating. ◆ Continuous current is <200 mA @ 3.5 V (26 dBm Output). ◆ Peak pulse current was <260 mA.
Excellent stability	◆ 24 hours x 365 days of work does not crash. ◆ Performance by the shell, electromagnetic environment and other external impact is small. ◆ Wide temperature design, the temperature drift coefficient is very low.
Excellent consistency	◆ A model of consistent design. ◆ All the highest grade of components are selected to ensure the stability and consistency of all parameters.
Simple and efficient hardware and software interface	◆ The peripheral circuit is extremely simple, single power supply, without external tantalum capacitor.(See Figure 1: Reference design circuit).

method of erection	◆ Support for 5pin WAFER installation.
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Table 2: Electrical parameters

Overall size	40x40x8.5mm
working voltage	DC 3.5V – 5 V
Standby state current	<80 mA (EN foot high level)
Sleep state current	<100 uA (EN pin low level)
working current	180mA @ 3.5V (26 dBm Output, 25°C). 110mA @ 3.5V (18 dBm Output , 25° C)。
start time	<100mS。
working temperature	- 20 °C - + 70 °C
Storage temperature	- 20 °C - + 85 °C
Working humidity	< 95% (+ 25 °C)
Air interface protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Scope of working spectrum	840-960MHZ
Work area support	US, Canada and other regions following U.S.FCC Europe and other regions following ETSI EN 302 208 Mainland China Japan Korea Malaysia Taiwan
Output power range	18-26 dBm
Output power accuracy	+/- 1dB
Output power flatness	+/- 0.2dB
receiving sensitivity	< -70dBm
Stock the label peak speed	With> 50 sheets / second
Label cache area	200-tags @ 96 bit EPC
label RSSI	support
communication interface	TTL Uart Interface
Communication Porter rate	115200 bps (default and recommended) 38400bps
Heat dissipation method	Air cooling (external radiator is not required)

PIN	definition	explain
1	GND	the earth

2	EN	High-level enabling module (> 1.5V)
3	RXD	TTL level (3.3V)
4	TXD	TTL level (3.3V)
5	VCC	Power supply (3-5V)

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