

Technical Description

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Plane Unit) controlled by controller operating at the frequency range of 2407- 2477MHz including 26 channels, which are (2407.00,2408.00,2409.00,2410.00,2411.00, 2413.00,2435.00,2436.00,2438.00,2440.00,2441.00,2442.00,2443.00,2444.00,2 445.00,2467.00,2468.00,2469.00,2470.00,2471.00,2472.00,2473.00,2474.00,24 75.00,2476.00 and 2477.00) MHz.

The EUT is powered by 3.7V Rechargeable battery. After switch on the EUT and paired with the controller, the plane can be controlled to move forward and turn left/ right by the controller. The plane can be charged by the controller.

Antenna Type: Internal integral antenna

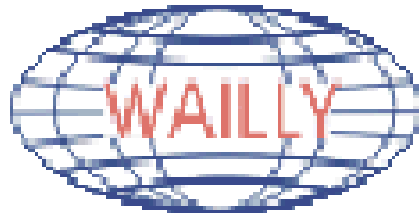
Antenna Gain: 0dBi

Nominal rated field strength: 99.2dB μ V/m at 3m

Maximum allowed field strength of production tolerance: 94.0 dB μ V/m - 100.0 dB μ V/m

The brief circuit description is listed as below:

- 1) U1 and the associated circuit act as a RX MCU.
- 2) U4 acts as the motor drivers.
- 3) U2 acts as the DC convertor.
- 4) Y2 acts as the crystal oscillator for U1
- 5) K1 acts as the power switch
- 6) L1, C16 and R1 act as the filter.



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WT24DK2015

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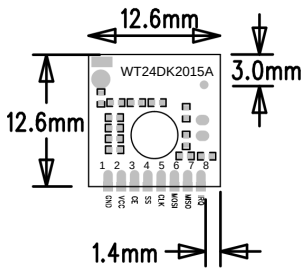
WT24DK2015 规格书

WT24DK2015 是一片 2.4GHz 数字收发模块 PCBA, 用高性能 2.4GHz 数字收发芯片 SSV7241, PCBA 上包含了 RF 周边的所有零件, 用户只需要通过 SPI 口直接连接使用, 非常方便。

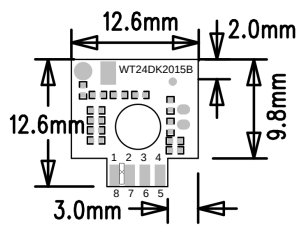
Features

- 2.4 GHz ISM band operation
- 250kbps, 1Mbps, and 2Mbps air rate
- Continuous TX mode, no re-lock between packets required*
- Programmable status monitor: dedicated RX/FIFO monitor mode*
- 1.9 to 3.6V supply range
- Automatic packet processing
- Advanced RSSI recording mode*
- Up to 6 data pipes for 1 RX to multiple TXs

WT24DK2015 系列包括三种型号:

型号	WT24DK2015A
外观	
特点	邮票孔+插件晶振

Pin Assignment	
1	GND
2	VCC
3	CE
4	SS
5	CLK
6	MOSI
7	MISO
8	IRQ

型号	WT24DK2015B
外观	
特点	金手指+插件晶振

Pin Assignment	
1	CE
2	SS
3	CLK
4	MISO
5	VCC
6	GND
7	IRQ
8	MOSI



型号	WT24DK2015C
外观	
特点	邮票孔+贴片晶振

Pin Assignment	
1	GND
2	VCC
3	CE
4	SS
5	CLK
6	MOSI
7	MISO
8	IRQ

注意:

WT24DK2015A 如果是贴在用户底板上使用，用户底板需要在模块晶振脚的地方留空足够的位置，因为晶振焊脚有突出。

电参数:

	MIN	TYP	MAX	单位
极限电源电压(V)	-0.3		3.6	V
极限 IO 电压(V)	-0.3		5.25	V
工作温度	-20		85	°C
储存温度	-40		125	°C
工作电压(V)	1.9		3.6	V
Power Down 电流		9		uA
Standby 电流		47		uA
工作频率	2400		2484	MHz
TX 电流(0dB)		20.5		mA
RX 电流		26.6		mA

Applications

- Wireless PC peripherals
- Wireless keyboards and mice
- Wireless gamepads
- Wireless audio
- VOIP & wireless headsets
- Remote controls
- Home automation
- Toys
- Consumer electronics
- Personal health and entertainment products