
WH-L100 Datasheet

File Version: V1.0.0

1. Product overview

WH-L100 is LoRa module which supports standard LoRaWAN protocol and working frequency band of WH-L100: -L: 433Mhz or 470Mhz; -H: 868Mhz or 915Mhz. WH-L100 has concentrated power density and powerful anti-interference capacity. LoRa direct sequence spread spectrum technology can also bring further communication distance.

Module can work in 1.8V~3.6V and sleep mode current is only 2uA which can be applied in ultra-low power consumption application scenarios.

2. Product features

- Adopt standard LoRaWAN protocol
- 4500 meters transmission distance
- -130dBm receiving sensitivity
- Sleep mode current 2uA
- Internally installed watchdog
- Small size: 36.0 x 21.0 x 2.8mm, SMT encapsulation

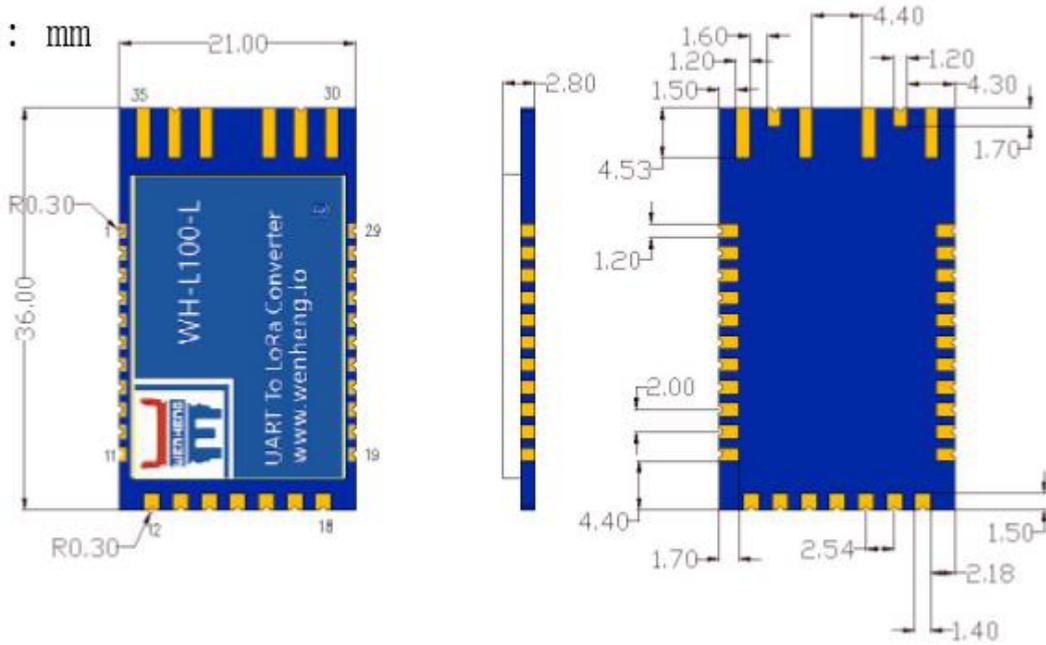
3. Product specifications

Parameter		Description
Wireless parameter	Frequency band	L: 433/470Mhz; H: 868Mhz/915Mhz
	Transmitting power	Voltage: 1.8V~2.4V, transmitting power can be set from 10dBm to 17dBm. Voltage: 2.4V~3.6V, transmitting power can be set from 10dBm to 20dBm.
	Receiving sensitivity	-141dBm@0.146Kbps
	Transmission distance	4.5km. Test condition: clear weather, open area, maximum power, antenna gain 5dBi, height is greater than 2m, 2.5K air rate.
	Antenna type	Bonding pad
	Protocol	LoRaWAN
Hardware parameter	Data interface	Serial port with baud rate 1200bps~115200bps
	Power supply	Single power supply: 1.8V~3.6V
	Working current	Transmitting current: 130mA@3.3V Receiving current: 16mA@3.3V Waking up current: 15 μ A@3.3V
	Working temperature	-30℃~+80℃
	Storage temperature	-45℃~+90℃
	Working humidity	10%~90%RH
	Storage humidity	10%~90%RH
	Dimension	36.0mm*21.0mm*2.8mm

	Encapsulation	SMT
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4.Product dimensions

Unit: mm



5.Contact Us

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6.Disclaimer

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7.Update History

2018-03-30 V1.0.0 established.