

Datasheet

Rev. 0.3

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History

Version	Date	Note
Preliminary	2017-07-21	Preliminary Release
0.2	2017-11-13	Update the frequency, communication range and data rate
0.3	2018-03-15	Add LoRaWAN™ certification logo

Notes:

Hardware version V8.0

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The specifications are subject to change without prior notice.



Fig.1 R711 Appearance

Introduction

Netvox R711, mainly used to detect the indoor air temperature and humidity, collects the data and sends it to other devices for display through the wireless network communication module. The wireless communication meets standard LoRa protocol (Class A).

R711 has been LoRaWAN™ certified.



Main Features

- Compliant with standard LoRa protocol
- Powered by 2 x 1.5V AA batteries

Electric Parameters

Input power	2 x 1.5V AA batteries
Operating power	DC 2.4V~3V
Standby current	12uA/3V
Transmitting current (max)	120mA/3V

Wireless Temperature Humidity Sensor

Receiving current (max)	11mA/3V
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Frequency Parameters

Frequency range	863MHz-928MHz; 470MHz-510MHz		
TX power	19dBm ± 1dBm		
Rx sensitivity	-121dBm (Frequency deviation=5kHz, Bit Rate=1.2kb/s)		
Antenna type	Built-in antenna		
Communication range	4km (Line of sight)		
Data transfer rate	0.3kbps~50kbps		
Spread technique	LoRa/FSK/OOK		
LoRaWAN™ band supported	<input checked="" type="checkbox"/> US915	<input checked="" type="checkbox"/> AU915	<input checked="" type="checkbox"/> AS923
	<input checked="" type="checkbox"/> EU868	<input checked="" type="checkbox"/> KR920	<input checked="" type="checkbox"/> CN470
	Configured before shipment		

Physical Parameters

Dimension	L:112mm*W:34mm*H:17mm
Operating Humidity	<90%RH
Operating Temperature	-20°C — 55°C
Storage Temperature	-40°C — 85°C
Temperature Detecting Range	-20°C — 55°C
Temperature Accuracy	±0.8°C @25°C
Humidity Detecting Range	10%RH — 90%RH
Humidity Accuracy	±4%RH @25°C