



# HT-M2808

**Indoor Hotspot Technical characteristics**



## Main attributes

### ❖ Main hardware

- CPU: Quad-core Cortex-A53 64-bit 1.5GHz;
- RAM: 2G DDR4;
- ROM: 32G eMMC 5.1;
- LoRa base band: SX1308 + SX1255/7 chipset.

### ❖ Network connection

- Wi-Fi: 2.4GHz/5GHz
- Bluetooth: BT V5.0 EDR and BLE
- Ethernet: 10/100M

### ❖ Body size

- Without foot pads and SMA antenna socket: 120 \* 115 \* 35
- Include foot pads and SMA antenna socket: 120 \* 122.5 \* 40

### ❖ Interface and interactive

- 5.5mm diameter socket: 12V DC power source input;
- RJ45 socket: Ethernet connection;
- Anti-theft lock hole: Anti-theft lock interface;
- Power Button with Blue LED;
- SMA Socket: LoRa antenna with inner holes and threads;
- Type C Socket: Firmware flash during production and system recovery for user;
- 1mm diameter hole: System recovery trigger, need to cooperate with the reset button or power-on sequence.

### ❖ Other highlight function

- A keyhole is reserved, which can be used for anti-theft.
- Heltec Indoor Hotspot has a cooling fan inside, which can be used to take away the heat generated by the operation of the system to ensure long-time stable operation.



## Technical Parameter Details

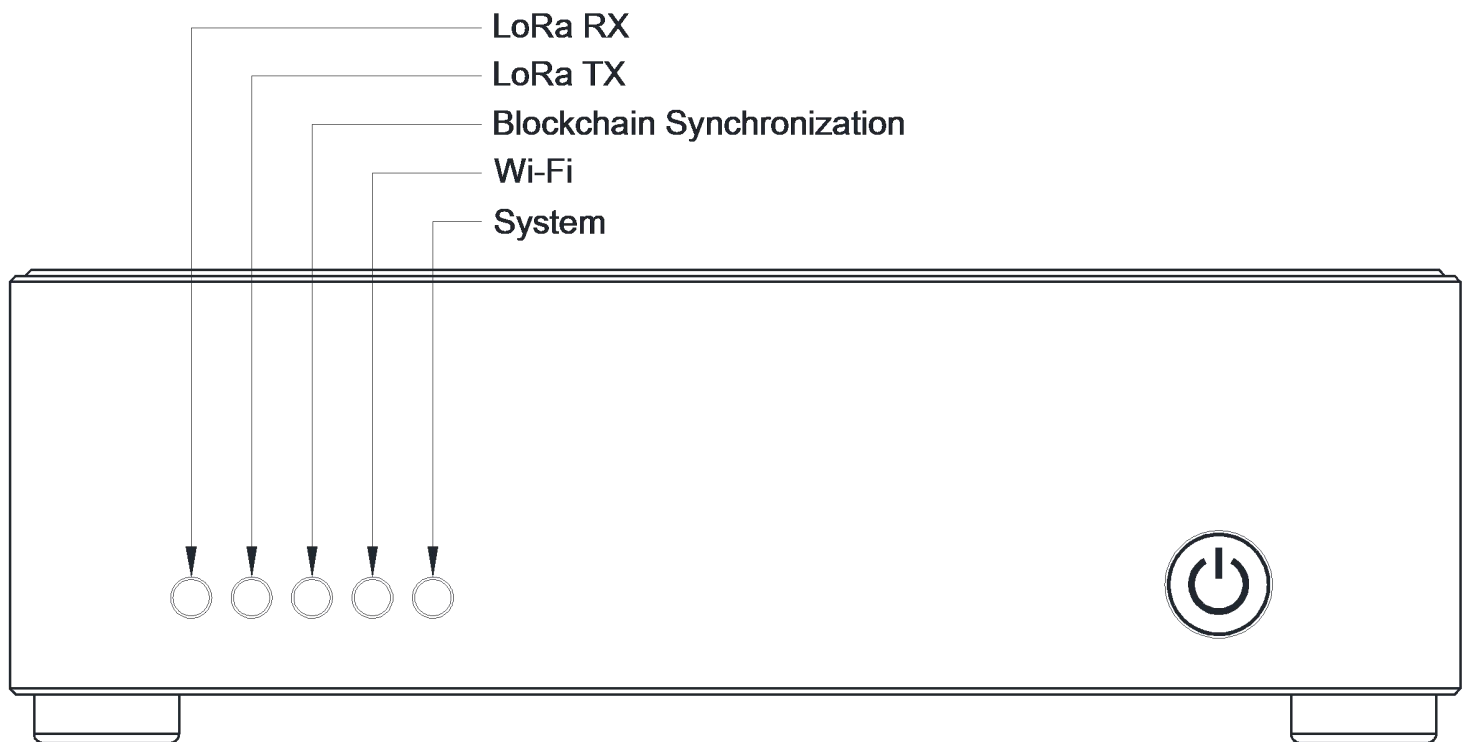
Item Group	Item	Parameter	
System Features	CPU	Quad core Cortex-A53 64-bit CPU 1.5GHz	
	RAM	2GB DDR4	
	ROM	32GB eMMC 5.1	
Interface	5.5mm diameter socket	12V DC input	
	RJ45 socket	Ethernet connection	
	Anti-theft lock hole	Anti-theft lock	
	Type C Socket	Firmware flash during production and system recovery for user	
	SMA Socket	LoRa antenna (Inner needle and outer thread)	
LoRa Features	LoRa Base band Chip	SX1308	
	Analog Front End Chip	SX1255	470~510 MHz (Maximum Output Power: 17dBm)
		SX1257	863~870 MHz (Maximum Output Power: 27dBm)
			902~928 MHz (Maximum Output Power: 27dBm)
LoRa Receiving Sensitivity	-142.5dBm @ 300bps		
Network	Wi-Fi (internal antenna)	IEEE 802.11a/b/g/n/ac 2.4G/5G double frequency	
	Bluetooth (internal antenna)	BT V5.0 EDR	
	Ethernet	10/100M	
Other Features	Size	120 x 115(+7.5) x 35(+5) mm	
	Working Temperature	-20 ~ 70 °C	



## Electrical Characteristics

Electrical Features	Condition			
		Minimum	Typical	Maximum
Power Supply	12V DC	11	12V	13V
Power Consumption (mA)	System running		160mA	
	Cooling fan operation		300mA	
	Wi-Fi connection	160mA	200mA	220mA
	Cooling fan operation while Wi-Fi connected	370mA	450mA	500mA
	LoRa 17dBm transmit		210mA	
	LoRa 27dBm transmit		220mA	

# Description



## LED Description

Function	Color	Description
LoRa RX	Red	This LED flashes when LoRa receives data.
LoRa TX	Green	The LED flashes when LoRa sends data.
Blockchain Synchronization	Orange	<ul style="list-style-type: none"> <li>● Blinking: Blockchain synchronizing;</li> <li>● Steady on: Blockchain synchronize complete.</li> </ul>
Wi-Fi	Blue	Wi-Fi connection is successful.
System	White	HT-M2808 Linux kernel running.



## Power button description

- Short press: Restart the system.
- Press longer than 3 seconds<sup>1</sup>: System shut down.
- The blue light of the power button flashes five minutes after the device is powered on or reset, and Hotspot's Bluetooth can be found and paired at this time.

## Bluetooth description

The blue light on the power button will continue to flash for 5 minutes after the system is turned on, and the Hotspot Bluetooth will be activated. If the Bluetooth is not connected within 5 minutes, it will be turned off automatically.

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<sup>1</sup> Long press the button for 3 seconds, and then release the button when the LED lights are all off.



## Packing List

Name	Unit	Quality
Heltec Indoor Hotspot	PCS	1
12V / 3A DC Adapter	PCS	1
DC Adapter110/220Vpower wire	PCS	1
SMA LoRa antenna(1.5m shielded wire)	PCS	1





## Dimensions

Length	21.5 CM
Width	15.2CM
Height	8.6CM
Weight	1.04KG



For more information about Heltec Indoor Hotspot, please visit:

<https://heltec.org/project/ht-m2808>

<https://heltec.org>