



TEST REPORT

Product Name: ThinkNode M1

Trademark: N/A

Model Number: M1 for Meshtastic, M1 for Meshcore, M5 for Meshtastic, M5 for Meshcore

Prepared For: Shenzhen Elecrow Limited

Address: Elecrow, 5th Floor, Fengze Building B, Nanchang Huafeng Industrial Park, Hangcheng Street Hangkong Road, Baoan District, Shenzhen city, China

Manufacturer: Shenzhen Elecrow Limited

Address: Elecrow, 5th Floor, Fengze Building B, Nanchang Huafeng Industrial Park, Hangcheng Street Hangkong Road, Baoan District, Shenzhen city, China

Prepared By: Shenzhen CTB Testing Technology Co., Ltd.

Address: 1&2/F., Building A, No.26, Xinghe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

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Sample tested Date: Jul. 23, 2025 to Aug. 27, 2025

Issue Date: Aug. 27, 2025

Report No.: CTB25072304403RH01

Test Standards: EN 62479:2010
EN 50663:2017

Test Results: PASS

Remark: This is RED health test report.

Compiled by:

Reviewed by:

Approved by:

Zhou kui

Arron Liu

Bin Mei

Zhou KuiArron LiuBin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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1. VERSION

Report No.	Issue Date	Description	Approved
CTB25072304403RH01	Aug. 27, 2025	Original	Valid

2. GENERAL INFORMATION

2.1 Product Information

Model(s):	M1 for Meshtastic, M1 for Meshcore, M5 for Meshtastic, M5 for Meshcore
Model Description:	All the model are the same circuit and RF module, only the name is different. Test sample model: M1 for Meshtastic
Bluetooth Version:	Bluetooth 5.0
Hardware Version:	V1.1
Software Version:	V1.0
Operation Frequency:	Bluetooth: 2402-2480MHz Lora: 868MHz
Max. RF output power:	Bluetooth: 1M: 9.43dBm, 2M: 9.55dBm Lora: 12.610dBm
Type of Modulation:	Bluetooth: GFSK Lora: LoRa/(G)FSK
Antenna installation:	External antenna
Antenna Gain:	Bluetooth: 4dBi
Ratings:	DC 5V charging from adapter DC 3.7V by battery

3. Health Requirements

3.1 Limits

According to Council Recommendation: the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

Reference levels for electric, magnetic and electromagnetic fields (10MHz to 300GHz)

Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level P_{max} .

Annex A contains example values for P_{max} derived from existing exposure limits listed in the bibliography, such as the ICNIRP guidelines [1], IEEE Std C95.1-1999 [2], and IEEE Std C95.1-2005 [3].

For wireless devices operated close to a person's body with available antenna powers and/or average total radiated powers higher than the P_{max} values given in Annex A, the alternative P_{max} values (called P_{max}'), described in Annex B can also be used.

For low power equipment using pulsed signals, other limits may apply in addition to those considered in Annex A and Annex B. Both ICNIRP guidelines [1] and IEEE standards [2], [3] have specific restrictions on exposures to pulsed fields, and the requirements of those standards with respect to exposure to pulses shall be met. Annex C discusses this topic further.

Exposure tier	Region of body	Exclusion level P_{max}
General public	Head and trunk	20mW(13dBm)
General public	Limbs	40mW(16dBm)

3.2 Exposure Evaluation

Mode	The worst e.i.r.p. (dBm)	Pmax(dBm)	Result
Bluetooth	9.55	13	PASS
Lora	12.610	13	PASS
Remark: 1, Refer to RF test report for e.i.r.p. 2, After performed the test at low/middle/high channel, the record is the worst.			

4. EUT Photographs

Refer to Report No.: CTB25072304403RE03 for EUT external and internal photos.

***** END OF REPORT *****