

Notified Body
TÜV Rheinland
LGA Products GmbH

Tillystraße 2
90431 Nürnberg

notified by the
Bundesnetzagentur für Elektrizität, Gas,
Telekommunikation, Post und Eisenbahnen

under No. 0197

herewith issues an

EU-Type Examination Certificate

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)
for compliance with the essential requirements of this directive

Registration Number: RT 60185899 0001

Evaluation Report Nr.: CN25XV8R 001

Manufacturer: Shenzhen Mammotion Innovation
Co., Limited
9th Floor, Building A3,
Avenue, Changyuan Community,
Taoyuan Street, Nanshan District,
Shenzhen Guangdong
P.R. China

Product: Radio Equipment
(Robotic Lawn Mower)

Type Identification: LM2S2
(MAMMOTION)

Essential requirements: Article 3.1(a) Health
Article 3.1(a) Electrical Safety
Article 3.1(b) EMC
Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I.

Validity of the certificate is specified in the Annex I.

Date **07.01.2026**



Notified Body


S. Peng

Equipment

Product	:	Robotic Lawn Mower
Trademark	:	MAMMOTION
Identification	:	LM2S2
Product description	:	The product is Robotic Lawn Mower which supports Bluetooth, Wi-Fi, LTE, LoRa and GNSS functions.

System description

Frequency band(s) of operation	:	LTE Bands 1/3/7/8/20/28/38/40, 2400-2483.5MHz, 5470-5725MHz, 5725-5875MHz, 863-870MHz, 1559-1610MHz, 1164-1215MHz, 1215-1300MHz
Operating frequency	:	LTE Band 1: Uplink: 1920-1980MHz, Downlink: 2110-2170MHz LTE Band 3: Uplink: 1710-1785MHz, Downlink: 1805-1880MHz LTE Band 7: Uplink: 2500-2570MHz, Downlink: 2620-2690MHz LTE Band 8: Uplink: 880-915MHz, Downlink: 925-960MHz LTE Band 20: Uplink: 832-862MHz, Downlink: 791-821MHz LTE Band 28: Uplink: 703-748 MHz, Downlink: 758-803MHz LTE Band 38: Uplink & Downlink : 2570-2620MHz LTE Band 40: Uplink & Downlink : 2300-2400MHz Bluetooth: 2402-2480MHz 2.4GHz Wi-Fi: 2412-2472MHz 5GHz Wi-Fi: 5500-5700MHz, 5745-5825MHz GNSS: 1559-1610MHz, 1164-1215MHz, 1215-1300MHz LoRa: 863.1-869.85MHz
Channel spacing / bandwidth	:	125kHz, 1MHz, 2MHz, 20MHz, 40MHz
RF output power	:	LTE bands: 23dBm+2.0dB/-2.0dB (Conducted) Bluetooth: 7.91dBm (max. e.i.r.p.) 2.4GHz Wi-Fi: 18.73dBm (max. e.i.r.p.) 5.5GHz Wi-Fi: 17.88dBm (max. e.i.r.p.) 5.8GHz Wi-Fi: 13.54dBm (max. e.i.r.p.) LoRa: 11.85dBm (max. e.i.r.p.)
Type of modulation	:	GFSK, DSSS, OFDM, CSS, QPSK, 16QAM
Type of antenna	:	Internal Antennas
Mode of operation (simplex / duplex)	:	Duplex
Duty cycle (access protocol, if applicable)	:	Up to 100%
Hardware version	:	HM434_MC_V04
Software version	:	1651.5557a082

Documentation

User information and installation instructions	☒
Block diagram	☒
Circuit diagram	☒
Part list	☒
PCB layout	☒
Photo documentation	☒
Versions of firmware/software used	☒
Statement of compliance with art. 10.2 it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.	☒
Risk Analysis	☒

Conformity Assessment

Applied harmonised standards (Referred to the publication of harmonised standards in the official Journal of the EU at the time of issuance)			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety			
3.1b EMC	EN 301 489-3 V2.3.2 EN 301 489-17 V3.3.1 EN 301 489-19 V2.2.1 EN 301 489-52 V1.3.1	CN25UY0A 001	TÜV Rheinland (Shenzhen) Co., Ltd.
3.2 Radio	EN 300 328 V2.2.2 EN 301 893 V2.2.1 EN 303 413 V1.2.1 EN 301 908-1 V15.2.1 EN 301 908-13 V13.2.1	CN25UY0A 002 CN25UY0A 003 CN25UY0A 005 CN25UY0A 007	TÜV Rheinland (Shenzhen) Co., Ltd.
3.3 Others			
3.4 Common Charger			
Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a Health	EN 62479:2010 EN IEC 62311:2020 EN 62233:2008	CN25UY0A 008 CN25MH9R 001	TÜV Rheinland (Shenzhen) Co., Ltd. TÜV Rheinland (Shanghai) Co., Ltd.
3.1a Safety	EN 60335-1:2012+A11+A13+A14+A15 EN 50636-2-107: 2015+A1+A2+A3	CN25MH9R 001	TÜV Rheinland (Shanghai) Co., Ltd.
3.1b EMC	EN IEC 61000-3-2:2019+A1:2021 +A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN 301 489-1 V2.2.3	CN25UY0A 001	TÜV Rheinland (Shenzhen) Co., Ltd.
3.2 Radio	EN 300 440 V2.2.1 EN 300 220-2 V3.2.1	CN25UY0A 004 CN25UY0A 006	TÜV Rheinland (Shenzhen) Co., Ltd.
3.3 Others			
3.4 Common Charger			
Other solutions, adopted to meet the essential requirements			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio			
3.3 Others			
3.4 Common Charger			

Rationale for applied non-harmonised standards or other solutions:

- Standards are either in the EMC/LVD OJ, on CENELEC and ETSI website as current, or valid for RED compliance.

Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- Validity of this Type Examination Certificate is limited to the versions of the applied standard. If versions of standards change or modifications are made to the product, this Certificate will be invalidated.