**< Shenzhen EBELONG Technology Co., Ltd.>**

**Risk assessment Report according to 2014/53/EU RED**

**Reference No.:** **WTD24D07175715W-RA**

Date: 2024-08-09

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| Product Name: | Refer to the report. |
| Model No.: | Refer to the report. |
| Model Description: | Refer to the report. |
| Brand Name: | N/A |
| Product Description: | 433.28MHz SRD |
| Antenna installation: | Integrated Antenna |

Manufacturer claims this product is used under general public environmental conditions and has been tested

by a third-party laboratory to comply with the requirements of RED 2014/53 / EU. This product is a portable

device for use by users. Environmental working conditions including the extreme conditionsand related

tests are as follows:

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| Requirements | No. | Risk Item | Analysis |
| Environmental Condition | 1 | Operating Temperature  -20 °C ~ 55 °C | Inherent Regulating Network Protected |
| 2 | Operating Humidity  65+/-20 %RH | Inherent regulating Network Protected |
| Article 3.2 RF  (Non-specific SRD) | 1 | Output Power under normal and extreme conditions | Fulfilled the requirements of Test Standards as follow:  ETSI EN 300 220-1 V3.1.1 (2017-02)  ETSI EN 300 220-2 V3.2.1 (2018-06) |
| 2 | Radiation Spurious Emission | Fulfilled the requirements of Test Standards as follow:  ETSI EN 300 220-1 V3.1.1 (2017-02)  ETSI EN 300 220-2 V3.2.1 (2018-06) |
| Article 3.1b | 1 | EMI Performance | Fulfilled the requirements of Test Standards as follow:  EN IEC 55015:2019+A11:2020  EN IEC 61000-3-2:2019+A1:2021  EN 61000-3-3:2013+A2:2021  ETSI EN 301 489-1 V2.2.3 (2019-11)  ETSI EN 301 489-3 V2.3.2 (2023-01) |
| 2 | EMS Performance | Fulfilled the requirements of Test Standards as follow:  EN IEC 61547:2023  ETSI EN 301 489-1 V2.2.3 (2019-11)  ETSI EN 301 489-3 V2.3.2 (2023-01) |
| 3 | Under Vehicular Environment | N/A |
| Article 3.1a (Safety) | 1 | Electric Shock Hazards  a) leakage current;  b) energy supply;  c) stored charges;  d) arcs;  e) electric shock;  f) burns. | Fulfilled the requirements of Test Standards as follow:  EN 60669-1:2018/AC:2020-02  EN IEC 60669-2-1:2022/A11:2022 |
| 2 | Mechanical Hazards  1) instability;  2) break-down during operation;  3) falling or ejected objects;  4) inadequate surfaces, edges or corners;  5) moving parts, especially where there may be variations in the rotational speed of parts;  6) vibration;  7) improper fitting of parts. | Fulfilled the requirements of Test Standards as follow:  EN 60669-1:2018/AC:2020-02  EN IEC 60669-2-1:2022/A11:2022 |
| 3 | Protection against other hazards  1) Explosion  2) Optical radiation  3) Fire  4) Temperature  5) Acoustic Noise  6) Biological and chemical effects  7) Emissions, production and/or  use of hazardous substances  8) e.g. gases, liquids, dusts,  mists, vapour)  9) Unattended operation  10) Connection to and  interruption from power supply  11) Combination of equipment  l) Implosion  m) Hygiene conditions  n) Ergonomics | Fulfilled the requirements of Test Standards as follow:  EN 60669-1:2018/AC:2020-02  EN IEC 60669-2-1:2022/A11:2022 |
| 4 | Functional safety and reliability   1. Equipment design   a) it can withstand normal use in foreseeable environmental conditions, including electric, magnetic and electromagnetic disturbances considered as relevant in the product EMC standard or generic EMC standard;  b) it can withstand reasonably foreseeable misuse;  c) errors in logic (but occurring only one at a time) will not cause hazards;  d) interruptions or normal fluctuations in the power supply will not cause hazards.   1. Type related hazards   a) starting or stopping unexpectedly;  b) hazards resulting from failure to stop.   1. System faults | The equipment is designed to meet safety and battery radiation requirements. Starting or stopping unexpectedly and system faults does not cause a security threat. All reports and user manuals can guarantee this. |
| Article 3.1a (Health or SAR) | 1 | Hazards arising from electric,  magnetic, and electromagnetic fields  (Tested under 20cm separation distance) | Fulfilled the requirements of Test Standards as follow:  EN 50663:2017  EN 62479:2010 |
| 2 | b) Minimum distance required, MPE or SAR | 5mm and MPE report. |
| 3 | Ionizing and non-ionizing radiation | Requirements to meet Health or SAR reports and standards:  EN 50663:2017  EN 62479:2010 |

This device has one RF function, confirmed to meet the requirements of the RED 2014/53/EU directive Article 3.1a.

The compliance assessment uses harmonized standards where possible, application of harmonized and “target to be harmonized” standards. The test suite for each product ensures compliance with the normative requirements of harmonized standards, and Notified body review of Art 3.1a, 3.1b and 3.2 compliance.

This product is intended for sale and application in a business environment.

Signature:

XX/XX

Contact Name/Title

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