

**Radio Equipment Directive (RED) 2014/53/EU
EU-Type Examination Certificate**

Certificate Holder

SAIN3 LLC
36 Berkley Drive Newark, DE 19702 United States

Product Description

Product Name: DMR Mini Mobile Radio

Model Name: DB-25D PRO

Brand Name: Radioddity

Hardware Version: Ver 1.0

Software Version: HD1 1.0

This EU-Type Examination Certificate remains valid as long as the stated product stays in compliance with essential requirements of the Radio Equipment Directive.



Joe Chew, Product Certifier

DERYCOM CERTIFICATION SERVICES, INC.

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Notified Body ID number: 3052

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EU-Type Examination Certificate (Module B)

General Condition

For each product to which this EU-Type examination certification relates, it has complied to the essential requirements as follows:

Article 3.1

Radio equipment shall be constructed so as to ensure:

- C (a) The protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in Directive 2014/35/EU but with no voltage limit applying.
- C (b) an adequate level of electromagnetic compatibility as set out in Directive 2014/30/EU

Article 3.2

Radio equipment shall be so constructed that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

Article 3.3

Radio equipment within certain categories or classes shall be so constructed that it complies with the following essential requirements.

- N/A (a) radio equipment interworks with accessories other than the charging devices for the categories or classes of radio equipment, specified in Part I of Annex Ia, which are specifically referred to in paragraph 4 of this Article;
- N/A (b) radio equipment interworks via networks with other radio equipment;
- N/A (c) radio equipment can be connected to interfaces of the appropriate type throughout the Union;
- N/A (d) radio equipment does not harm the network or its functioning nor misuse network resources, thereby causing an unacceptable degradation of service;
- N/A (e) radio equipment incorporates safeguards to ensure that the personal data and privacy of the user and of the subscriber are protected;
- N/A (f) radio equipment supports certain features ensuring protection from fraud;
- N/A (g) radio equipment supports certain features ensuring access to emergency services;
- N/A (h) radio equipment supports certain features in order to facilitate its use by users with a disability;
- N/A (i) radio equipment supports certain features in order to ensure that software can only be loaded into the radio equipment where the compliance of the combination of the radio equipment and software has been demonstrated.

Article 3.4

Radio equipment falling within the categories or cases specified in Part I of Annex Ia shall be so constructed that it complies with the specifications relating to charging capabilities set out in that Annex for the relevant category or class of radio equipment.

Legend

C	=	Conform
NC	=	Not Conform
NA	=	Not applicable (for this equipment)
NP	=	Not performed (for this certificate)

Technical Description

Intended Use / Category	PMR
RF output power	Digital: 43.00 dBm (Conducted) Analog: 43.00 dBm (Conducted)

Frequency range (MHz)	136-174 MHz
Antenna type and Gain	Detachable Antenna, 5.5 dBi

Intended Use / Category	PMR
RF output power	Digital: 42.84 dBm (Conducted) Analog: 42.94 dBm (Conducted)

Frequency range (MHz)	400-480 MHz
Antenna type and Gain	Detachable Antenna, 5.5 dBi

Intended Use / Category	GNSS
RF output power	--
Frequency range (MHz)	1575.42±1.023 MHz
Antenna type and Gain	External antenna, 3.5dBi

ESSENTIAL REQUIREMENTS

Essential Requirement	Standard Number & Version	Test Reports
Radio (Article 3.2)	ETSI EN 300 086 V2.1.2	AGC05559250301ER02
	ETSI EN 300 219 V2.1.1	
	ETSI EN 300 113 V3.1.1	AGC05559250301ER03
	ETSI EN 303 413 V1.2.1	AGC05559250301ER04
EMC (Article 3.1b)	ETSI EN 301 489-1 V2.2.3	AGC05559250301ER01
	ETSI EN 301 489-5 V2.2.1	
	ETSI EN 301 489-19 V2.2.1	
Health (Article 3.1a)	EN IEC 62311:2020	AGC05559250301EH01
	EN 50665:2017	
Safety (Article 3.1a)	EN IEC 62368-1:2020+A11:2020	AGC05559250301ES01
Radio (Article 3.3g)	N/A	--
Radio (Article 3.4)	N/A	--

Technical Documentation Files

Product Documentation reviewed

External Photos <input checked="" type="checkbox"/>	Assembly drawings <input checked="" type="checkbox"/>
Internal Photos <input checked="" type="checkbox"/>	Bill of materials <input checked="" type="checkbox"/>
Test Setup Photos <input checked="" type="checkbox"/>	Block diagram <input checked="" type="checkbox"/>
Label and Label Placement <input checked="" type="checkbox"/>	Schematics <input checked="" type="checkbox"/>
Risk Assessment <input checked="" type="checkbox"/>	Manual <input checked="" type="checkbox"/>
RED Declarations <input checked="" type="checkbox"/>	PCB Layout and Part Placement <input checked="" type="checkbox"/>

Annex I**Article 19 General principles of the CE marking**

1. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.
2. On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Article 20 Rules and conditions for affixing the CE marking and the identification number of the notified body

1. The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.
2. The CE marking shall be affixed before the radio equipment is placed on the market.
3. Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.

Article 21 Technical documentation

1. The technical documentation shall contain all relevant data or details of the means used by the manufacturer to ensure that radio equipment complies with the essential requirements set out in Article 3. It shall, at least, contain the elements set out in Annex V.
2. The technical documentation shall be drawn up before radio equipment is placed on the market and shall be continuously updated.
3. The technical documentation and correspondence relating to any EU-type examination procedure shall be drawn up in an official language of the Member State in which the notified body is established or in a language acceptable to that body.
4. Where the technical documentation does not comply with paragraphs 1, 2 or 3 of this Article, and in so doing fails to present sufficient relevant data or means used to ensure compliance of radio equipment with the essential requirements set out in Article 3, the market surveillance authority may ask the manufacturer or the importer to have a test performed by a body acceptable to the market surveillance authority at the expense of the manufacturer or the importer within a specified period in order to verify compliance with the essential requirements set out in Article 3.