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UKAS PRODUCT CERTIFICATION 172

TÜV SÜD BABT

EU Type Examination Certificate

Certificate No: **BABT-RED000616 i01**

Certificate Holder: **WISOL CO., LTD.**
531-7 Gajang-ro
Osan-Si, Gyeonggi-do, 18103
REPUBLIC OF KOREA

Product Type: **Short range device / SRD**
Sigfox Quad-mode module

Model(s): **SFM20R1**

We, as Notified Body number 0168, have examined the technical documentation and supporting evidence for the above listed equipment and found it to comply with the requirements of Annex III Module B of Radio Equipment Directive 2014/53/EU in relation to the following essential requirements covered by the examination

Essential Requirements: **Article 3.1 (a) in respect of Health and Safety**
Article 3.1(b) in respect to EMC
Article 3.2 in respect to the use of the Radio Spectrum

This is based upon examination of the following Technical Data file.
Please refer to the Annex for further technical details.

Technical Data: **SFM20R1**

Valid from: 2017-10-27 (Allen Ferry)

Renewal Date: 2022-10-25

This certificate has been issued in accordance with the Certification Regulations of TUV SUD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex.

The CE marking may be used on the equipment described above subject to the equipment meeting the compliance requirements of all applicable EU directives.

The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact BABT@TUV-SUD.co.uk

Issued by TUV SUD BABT under document number RED1 17 10 02279 002

TÜV SÜD BABT • TÜV SÜD Group
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1 Equipment Description

RF module

1.1 Models

	Model	HW Version	SW Version
Original	SFM20R1	1.0	SFM20R_V204

1.2 Supported Functions and Features

1.2.1 Non-radio features

N/A

1.2.2 Radio features

Radio	Features	Operating Spectrum / Power
IEEE 802.11b/g/n	Adaptive	2412 ~ 2472 MHz / 15 dBm
Bluetooth V4.2	Only BLE	2402 ~ 2480 MHz / 5 dBm
GNSS	Only GPS, GLONASS	1559 ~ 1610 MHz / Receiver only
SIGFOX		868.055 ~ 868.205 MHz / 13.9 dBm

1.3 Associated Parts

None.

2 Assessed Standards

Article 3.1(a)	Article 3.1(b)	Article 3.2
EN 60950-1:2006/A2:2013 EN 62311:2008	Draft EN 301 489-1 V 2.2.0 Final Draft EN 301 489-3 V2.1.1 Draft EN 301 489-17 V 3.2.0 Draft EN 301 489-19 V 2.1.0	EN 300 328 V2.1.1 EN 300 220-1 V3.1.1 EN 300 220-2 V3.1.1 EN 303 413 V1.1.1

3 Technical Documentation

3.1 Technical Documentation

Technical documentation and supporting evidence were examined and found to comply with the EU-type examination requirements in conjunction with Annex V requirements of the directive.

3.2 Declarations

Declaration of Conformity	Modified	2017-10-26

3.3 Strategic Documentation

Risk Assessment	Modified	2017-10-27
Conformity Assessment Principles	Modified	2017-10-27
Compliance Strategy	Issued	2017-10-18

3.4 Technical Compliance Documentation

3.4.1 Article 3.1(a)

HCT-S-1707-C001	Issued	2017-08-10
HCT-R-1710-E006-1	Issued	2017-10-20

3.4.2 Article 3.1(b)

HCT-E-1708-C015-2	Modified	2017-10-27

3.4.3 Article 3.2

HCT-R-1710-C004-1	Issued	2017-10-20
HCT-R-1710-C003-1	Issued	2017-10-26
HCT-A-1710-E002	Issued	2017-10-16
HCT-R-1710-C002	Issued	2017-10-16

3.4 Additional Information

Any equipment integrating this radio module is subject to all of the requirements of the Radio Equipment Directive and should be assessed for NFC function. When equipment integrating this radio module is operated by battery, the related test items should be performed.

Signature: _____ Date: 2017-10-27

On behalf of TÜV SÜD BABT