

# EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

## Radio Equipment Directive (RED) 2014/53/EU

**PHOENIX TESTLAB**  
Notified Body Number **0700**



BNetzA-bs-02/51-55

This is to certify that:

PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	22-210731 - 22-220731
Manufacturer	Quectel Wireless Solutions Co., Ltd.
Address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Product Description	5G Sub-6 GHz M.2 Module; with WCDMA, LTE, 5G NR Sub 6GHz and GNSS
Brand Name / Model Name	QUECTEL / RM520N-GL

### The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	<b>Conform</b>
Article 3.1 b): Electromagnetic Compatibility	<b>Conform</b>
Article 3.2: Effective and Efficient Use of Radio Spectrum	<b>Conform</b>
Additional Essential Requirements:	<b>Not applicable</b>

Date of issue	<b>2022-06-27</b>	Expiry date:	<b>2027-06-26</b>
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This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.



The attached Annex forms part of this certificate. This certificate consists of 4 pages.

Signed by Wayne Hsu  
Notified Body

## Annex

### Technical description

Frequency Range	UTRA FDD Band I/V/VIII E-UTRA FDD Band:1/3/5/7/8/20/28/32 E-UTRA TDD Band: 34/38/40/41/42/43/46 UL CA:CA_1C/CA_3C/CA_5B/CA_7C/CA_38C/CA_40C/CA_41C/ CA_42C/CA_1A-3A/ CA_1A-5A/CA_1A-7A/CA_1A-8A/CA_1A-28A/ CA_3A-5A/CA_3A-7A/CA_3A-8A/CA_3A-20A/ CA_7A-20A/CA_7A-28A DL CA: CA_20A-32A/CA_1A-46A/CA_3A-46A/CA_7A-46A 5G NR Standalone and Non-Standalone : n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 GPS(L1)/BDS(B1I)/GLONASS(G1)/Galileo(E1)/SBAS(L1): 1559 - 1610 MHz (Rx) BDS(B2a)/GPS(L5)/Galileo(E5a):1164 - 1215 MHz (Rx)
Transmit Power	UTRA FDD Band I/VIII: 25 dBm E-UTRA FDD 1/3/7/8/20/28: 25 dBm E-UTRA TDD 34/38/40/42/43: 25 dBm UL CA: 25 dBm 5G NR Standalone and Non-Standalone: n1/n3/n7/n8/n20/n28/n38/n40: 25dBm n41/n77/n78 (class 2): 28dBm
Hardware Version	R1.0
Software Version	RM520NGLAAR01A06M4G

### System Components

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### Optional Components

WCDMA I/V/VIII Antenna	Max. Gain: 11.85/10.32/10.62
LTE/CA Band 1/3/5/7 Antenna	Max. Gain: 11.85/11.34/10.32/11.95
LTE Band 8/20/28/34 Antenna	Max. Gain: 10.61/10.37/9.64/11.95
LTE/CA Band 38/40/41/42 Antenna	Max. Gain: 11.95
LTE Band 43 Antenna	Max. Gain: 11.95
LTE Band 38/41/42(PC2) Antenna	Max. Gain: 8.95
LTE Band 43(HPUE) Antenna	Max. Gain: 8.95
NR Band 1/3/5/7/8/20/28/38/40 Antenna	Max. Gain: 11.85/11.34/10.32/11.95/10.61/10.37/9.64/11.95/11.95
NR Band 38/40(HPUE) Antenna	Max. Gain: 8.95
NR Band 41/77/78 Antenna	Max. Gain: 8.95

<b>Approval documentation</b>	Technical Documentation including QUECTEL_RM520N-GL External / Internal Photos, User Manual, Label, Block Diagram, Circuit Diagram, Operational Description, PCB Layout, Parts Placement, Parts List.
EU Declaration of Conformity	3 pages
Explanation of compliance Article 10(2) and Article 10(10)	Declaration of Operation in Member States and application for certification, 1 page, 22 June, 2022
Further Documents	Risk Assessment, 2 pages, 22 June, 2022


### Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN IEC 62368-1:2020+A11:2020	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	SZES220400197501
EN IEC 62311:2020	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	ZEWA2204000019RG06
ETSI EN 301 489-1 V2.2.3 Draft ETSI EN 301 489-19 V2.2.0 ETSI EN 301 489-52 V1.2.1 ETSI EN 55032:2015+A1:2020 ETSI EN 55035:2017+A11:2020	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen BranchNB RED	SZCR220400118402
ETSI EN 301 908-1 V15.1.1	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen BranchNB RED	ZEWA2204000019RG04
ETSI EN 301 908-2 V13.1.1 ETSI TS 134 121-1 V12.1.0	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	ZEWA2204000019RG01
ETSI EN 301 908-13 V13.2.1 ETSI TS 136 521-1 V16.9.0	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	ZEWA2204000019RG02
Draft EN 301 908-25 V15.1.1_0.0.9 ETSI TS 138 521-1 V16.6.0 ETSI TS 138 521-3 V16.6.0	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	ZEWA2204000019RG03
ETSI EN 303 413 V1.2.1	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	ZEWA2204000019RG05

### Limitations / Restrictions

- This device also contains frequency bands that are not operational in EU member states. Only the frequency bands used in European Union have been assessed for this EU-TYPE EXAMINATION (MODULE B) CERTIFICATE.
- Operating Temperature range is -30 to +75 degree Celsius.
- Body Separation distance is 20cm by using the procedure of MPE calculation.
- If the module shall be integrated into a system, this set needs to be reassessed.

### Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.
3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.
4.  The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.
5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.