

TECHNICAL APPROVAL CERTIFICATE

based on the Agreement on Mutual Recognition
between the European Community and Canada

CERTIFICAT D'APPROBATION TECHNIQUE

en se basant l'accord de reconnaissance mutuelle
entre la Communauté Européenne et le Canada

CERTIFICATE NUMBER <i>NUMÉRO DE CERTIFICAT</i>	22-210849 - 22-220849
CERTIFICATION NUMBER <i>NUMÉRO DE CERTIFICATION</i>	10224A-022RM520NGL
TYPE OF SERVICE <i>TYPE DE SERVICE</i>	New Single Certification
CERTIFICATE HOLDER <i>TITULAIRE DU CERTIFICAT</i>	Quectel Wireless Solutions Co., Ltd Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233
TYPE OF EQUIPMENT <i>GENRE DE MATÉRIEL</i>	5G Sub-6 GHz M.2 Module
PRODUCT MARKETING NAME (PMN) <i>NOM DE MARQUE DE PRODUIT (NMP)</i>	Quectel RM520N-GL
HARDWARE VERSION IDENTIFICATION NUMBER (HVIN) <i>NUMÉRO D'IDENTIFICATION DE LA VERSION DU MATÉRIEL</i>	RM520N-GL
FIRMWARE VERSION IDENTIFICATION NUMBER (FVIN) <i>NUMÉRO D'IDENTIFICATION DE LA VERSION DU MICROLOGICIEL</i>	RM520NGLAAR01A06M4G
FREQUENCY RANGE (MHz) <i>BANDE DE FRÉQUENCES</i>	refer to Annex
RF POWER (WATT) / FIELD STRENGTH (dBμV/m) <i>PUISSANCE TRANSMISE HF (WATT) / INTENSITÉ DE CHAMP (dBμV/m)</i>	refer to Annex
EMISSION DESIGNATION (TRC-43) <i>DÉSIGNATION D'ÉMISSION (CRT-43)</i>	refer to Annex
ANTENNA INFORMATION <i>INFORMATION D'ANTENNE</i>	refer to Annex
TYPE OF RADIO EQUIPMENT <i>TYPE D'EQUIPEMENT RADIO</i>	refer to Annex
CONTACT INFORMATION OF TESTING LABORATORY <i>COORDONNÉES DU LABORATOIRE D'ESSAI</i>	SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone, Suzhou, P.R.C. 27594 / CN0120
COMPANY NUMBER / CAB IDENTIFIER <i>NUMÉRO DE COMPAGNIE / OEC IDENTIFICATEUR</i>	
CERTIFIED TO SPECIFICATION / ISSUE <i>CERTIFIÉ SELON LE CAHIER DES CHARGES / ÉDITION</i>	RSS-130 Issue 2, RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3, RSS-140 Issue 1, RSS- 192 Issue 4, RSS-195 Issue 2, RSS-197 Issue 1, RSS-199 Issue 3

Certification of equipment means only that the equipment has met the requirements of the above-noted specification.

Licence applications, where applicable to use certified equipment, are acted on accordingly by the ISDE issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISDE. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISDE.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus.

Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'ISDE et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'ISDE. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par ISDE.

Labelling of Certified Radio Equipment: Equipment that has received certification but is not labelled with the model number and the certification number as outlined above is not considered certified.

Étiquetage du matériel radio homologué: Le matériel pour lequel une certification a été obtenue mais qui n'est pas étiqueté conformément aux exigences ci-dessus (numéro de modèle et numéro de certification) n'est pas considéré comme certifié.

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specification.

J'atteste, par la présente, que le matériel a fait l'objet d'essai et a été jugé conforme à la spécification ci-dessus.

Blomberg, 10 August 2022

Signed by / *Signataire* Andy Yang

CAB identifier: DE0003

Foreign Certification Body (FCB)

Annex to TECHNICAL APPROVAL CERTIFICATE 22-210849 - 22-220849
(page 1 of 4)

CERTIFICATION NUMBER IC: 10224A-022RM520NGL

FREQUENCY RANGE (MHz) <i>BANDE DE FRÉQUENCES (MHz)</i>	RF POWER (WATT) / FIELD STRENGTH (dB μ V/m) <i>PUISSANCE TRANSMISE HF (WATT) / INTENSITÉ DE CHAMP (dBμV/m)</i>	EMISSION DESIGNATION (TRC-43) <i>DÉSIGNATION D'ÉMISSION (CRT-43)</i>
1852.4-1907.6 MHz	0.315 W	4M17F9W
1712.4-1752.6 MHz	0.297 W	4M21F9W
826.4-846.6 MHz	0.316 W	4M15F9W
1860-1900 MHz	0.301 W, 0.282 W	17M9G7D, 18M0W7D
1855-1905 MHz	0.306 W	8M95G7D
1720-1745 MHz	0.310 W, 0.273 W	17M9G7D, 18M0W7D
1712.5-1752.5 MHz	0.315 W	4M48G7D
829-844 MHz	0.288 W, 0.252 W	8M94G7D, 8M94W7D
824.7-848.3 MHz	0.291 W	1M11G7D
826.5-846.5 MHz	0.258 W	4M48W7D
2510-2560 MHz	0.282 W, 0.265 W	17M9G7D, 17M9W7D
2507.5-2562.5 MHz	0.305 W, 0.284 W	13M5G7D, 13M5W7D
704-711 MHz	0.290 W, 0.276 W	8M94G7D, 8M96W7D
701.5-713.5 MHz	0.280 W	4M48W7D
700.5-714.5 MHz	0.308 W	2M70G7D
782 MHz	0.283 W, 0.262 W	8M92G7D, 8M93W7D
779.5-784.5 MHz	0.289 W, 0.265 W	4M48G7D, 4M49W7D
793 MHz	0.292 W, 0.272 W	8M92G7D, 8M93W7D
790.5-795.5 MHz	0.301 W	4M48G7D
709-711 MHz	0.290 W, 0.272W	8M96G7D, 8M96W7D
706.5-713.5 MHz	0.314 W, 0.274 W	4M48G7D, 4M48W7D
1860-1905 MHz	0.316 W, 0.269 W	17M9G7D, 17M9W7D
1852.5-1912.5 MHz	0.274 W	4M48W7D
831.5-841.5 MHz	0.308 W, 0.254 W	13M5G7D, 13M5W7D
826.5-846.5 MHz	0.316 W, 0.265 W	4M48G7D, 4M48W7D
2310 MHz	0.270 W, 0.246 W	9M01G7D, 9M00W7D
2307.5-2312.5 MHz	0.282 W	4M51G7D
2580-2610 MHz	0.385 W, 0.345 W	17M9G7D, 17M9W7D
2577.5-2612.5 MHz	0.397 W, 0.356 W	13M5G7D, 13M5W7D
2580-2610 MHz	0.392 W, 0.324 W	17M9G7D, 17M9W7D
2577.5-2612.5 MHz	0.397 W	13M5G7D
2575-2615 MHz	0.328 W	8M94W7D
3460-3590 MHz	0.152 W, 0.120 W	18M1G7D, 18M0W7D
3452.5-3597.5 MHz	0.178 W	4M52G7D
3610-3640 MHz	0.225 W, 0.176 W	18M1G7D, 18M1W7D

Annex to TECHNICAL APPROVAL CERTIFICATE 22-210849 - 22-220849
(page 2 of 4)

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3660-3690 MHz	0.045 W, 0.035 W	18M1G7D, 18M0W7D
3560-3640 MHz	0.07 W, 0.054 W	4M52G7D, 4M52W7D
3552.5-3647.5 MHz	0.07 W, 0.055 W	18M0G7D, 18M1W7D
3660-3690 MHz	0.046 W, 0.043 W	18M0G7D, 18M0W7D
3652.5-3675 MHz	0.044 W	4M51W7D
1715-1775 MHz	0.298 W, 0.249 W	18M0G7D, 18M0W7D
673-688 MHz	0.311 W, 0.277 W	17M9G7D, 17M9W7D
670.5-690.5 MHz	0.315 W	13M5G7D
1860-1900 MHz	0.289 W, 0.213 W	37M8G7D, 37M7G7D
1857.8-1902.5 MHz	0.310 W, 0.219 W	32M6W7D, 32M6W7D
829-844 MHz	0.243 W, 0.301 W	18M8G7D, 18M8W7D
825.6-847.4 MHz	0.321 W, 0.305 W	7M52G7D, 7M51W7D
2510-2560 MHz	0.285 W, 0.215 W	37M7G7D, 37M7W7D
2505.5-2564.5 MHz	0.313 W	27M7G7D
2507.8-2562.2 MHz	0.236 W	32M6W7D
2580-2610 MHz	0.394 W, 0.348 W	37M6G7D, 37M6W7D
2506-2680 MHz	0.369 W, 0.396 W	37M8G7D, 37M7W7D
2501.5-2684.5 MHz	0.372 W	27M6W7D
2501.3-2684.7 MHz	0.415 W	23M1G7D
3460-3590 MHz	0.127 W, 0.106 W	37M7G7D, 37M7W7D
3455.5-3594.5 MHz	0.145 W	27M5G7D
3457.8-3592.2 MHz	0.112 W	32M4W7D
3610-3629.8 MHz	0.251 W, 0.197 W	37M9G7D, 37M9W7D
3605.5-3644.5 MHz	0.253 W, 0.198 W	27M8G7D, 27M7W7D
3660-3690 MHz	0.057 W, 0.045 W	37M9G7D, 37M8W7D
3653.3-3696.7 MHz	0.060 W, 0.047 W	23M0G7D, 22M9W7D
3560-3640 MHz	0.100 W, 0.078 W	37M6G7D, 37M5W7D
3555.5-3644.5 MHz	0.102 W, 0.080 W	27M7G7D, 27M6W7D
3660-3690 MHz	0.046 W, 0.039 W	37M5G7D, 37M4W7D
3653.3-3696.7 MHz	0.048 W, 0.042 W	22M9G7D, 22M9W7D
1712.8-1777.2 MHz	0.299 W	13M9G7D
1713-1777 MHz	0.283 W, 0.313 W, 0.287 W, 0.264 W	18M4G7D, 18M3W7D, 18M4G7D, 18M4W7D
1715-1775 MHz	0.283 W, 0.313 W	18M9G7D, 18M9W7D
1717.8-1770 MHz	0.295 W, 0.216 W	32M6G7D, 32M6W7D

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(page 3 of 4)

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1720-1770 MHz	0.277 W, 0.210 W	37M7G7D, 37M7W7D
1860-1900 MHz	0.236 W, 0.200 W	17M9G7D, 19M0W7D
1857.5-1902.5 MHz	0.237 W	13M4G7D
1932.5-1987.5 MHz	0.217 W	4M49W7D
834-839 MHz	0.243 W, 0.258 W	17M9G7D, 18M9W7D
831.5-841.5 MHz	0.245 W, 0.267 W	13M4G7D, 14M1W7D
2520-2550 MHz	0.240 W, 0.252 W	38M6G7D, 38M6W7D
2515-2555 MHz	0.243 W	28M7G7D
2507.5-2562.5 MHz	0.294 W	14M1W7D
706.5-708.5 MHz	0.236 W, 0.251 W	13M4G7D, 14M1W7D
751 MHz	0.218 W, 0.233 W	8M92G7D, 9M26W7D
779.5-784.5 MHz	0.219 W, 0.233 W	4M48G7D, 4M47W7D
763 MHz	0.218 W, 0.239 W	8M96G7D, 9M29W7D
1870-1895 MHz	0.248 W, 0.215 W	38M6G7D, 38M6W7D
1942.5-1982.5 MHz	0.260 W, 0.226 W	22M9G7D, 23M8W7D
879-884 MHz	0.237 W, 0.260 W	18M9G7D, 18M9W7D
876.5-886.5 MHz	0.239 W, 0.262 W	13M4G7D, 14M1W7D
2310 MHz	0.218 W, 0.231 W	8M95G7D, 9M33W7D
2307.5-2312.5 MHz	0.231 W	4M48G7D
2580-2610 MHz	0.274 W, 0.262 W	17M9G7D, 18M2W7D
2577.5-2612.5 MHz	0.345 W, 0.270 W	12M9G7D, 13M6W7D
2590-2600 MHz	0.354 W, 0.314 W	35M8G7D, 38M0W7D
2585-2605 MHz	0.361 W	26M9G7D
2546.01-2640 MHz	0.485 W, 0.389 W, 0.334 W, 0.296 W	96M4G7D, 97M7W7D, 96M4G7D, 97M7W7D
2516.01-2670 MHz	0.504 W, 0.404 W, 0.364 W, 0.315 W	35M8G7D, 38M0W7D, 35M8G7D, 38M0W7D
3570-3630 MHz	0.083 W, 0.065 W, 0.061 W, 0.055 W	35M7G7D, 37M8W7D, 35M7G7D, 37M8W7D
3670-3680 MHz	0.018 W, 0.014 W, 0.022 W, 0.019 W	35M7G7D, 37M8W7D, 35M7G7D, 37M8W7D
3660-3690 MHz	0.018 W	17M8G7D
1730-1760 MHz	0.255 W, 0.268 W	38M6G7D, 38M6W7D
1720-1770 MHz	0.256 W	17M9G7D
1717.5-1772.5 MHz	0.278 W	14M1W7D
673-688 MHz	0.226 W, 0.242 W	17M9G7D, 18M9W7D
670.5-690.5 MHz	0.229 W, 0.247 W	13M5G7D, 14M1W7D

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(page 4 of 4)

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3500.01-3600 MHz	0.143 W, 0.110 W, 0.091 W, 0.082 W	96M3G7D, 97M3W7D, 96M3G7D, 97M3W7D
3485.01-3615 MHz	0.144 W	64M4G7D
3495-3605.01 MHz	0.135 W	87M3W7D
3470.01-3630 MHz	0.099 W, 0.090 W	35M8G7D, 37M8W7D
3675 MHz	0.027 W, 0.021 W, 0.029 W, 0.026 W	45M7G7D, 47M4W7D, 45M7G7D, 47M4W7D
3670.02-3680.01 MHz	0.029 W, 0.023 W, 0.030 W, 0.028 W	35M8G7D, 37M9W7D, 35M8G7D, 37M9W7D
3500.01-3600 MHz	0.123 W, 0.097 W, 0.091 W, 0.082 W	96M3G7D, 97M3W7D, 96M3G7D, 97M3W7D
3455.01-3645 MHz	0.124 W	8M60G7D
3465-3635.01 MHz	0.125 W	27M8W7D
3470.01-3630 MHz	0.099 W, 0.090 W	35M8G7D, 37M8W7D
3675 MHz	0.033 W, 0.026 W, 0.029 W, 0.026 W	45M7G7D, 47M4W7D, 45M7G7D, 47M4W7D
3655.02-3695.01 MHz	0.029 W	8M59W7D
3670.02 MHz	0.030 W, 0.028 W	35M8G7D, 37M9W7D

ANTENNA INFORMATION <i>INFORMATION D'ANTENNE</i>
Max gain: WCDMA B2, LTE B2, LTE B25, 5GNR n2, 5GNR n25: 8.00 dBi Max gain: WCDMA B4, LTE B4, LTE B66, 5GNR n66: 5.00 dBi Max gain: WCDMA B5, LTE B5, 5GNR n5: 6.13 dBi Max gain: LTE B7, 5GNR n7: 8.00 dBi Max gain: LTE B12, 5GNR n12: 5.64 dBi Max gain: LTE B17: 5.66 dBi Max gain: LTE B13, 5GNR n13: 5.16 dBi Max gain: LTE B14, 5GNR n14: 6.00 dBi Max gain: LTE B26, 5GNR n26: 6.12 dBi Max gain: LTE B30, 5GNR n30: -1.02 dBi Max gain: LTE B38, LTE B41, 5GNR n38, 5GNR n41: 1.99 dBi Max gain: LTE B42: 0 dBi Max gain: LTE B43: -2 dBi Max gain: 5GNR n77, 5GNR n78: -2.01 dBi Max gain: LTE B71, 5GNR n71: 5.49 dBi Max gain: LTE B48, 5GNR n48: -1.01 dBi

TYPE OF RADIO EQUIPMENT <i>TYPE D'EQUIPEMENT RADIO</i>
Module Approval, Wireless Local Area Network Device, Other