

Oral Trade Secrets onfidential May Con GM **QCNCM865 OEM Integrator Instructions**

80-58493-3 Rev. AE

August 9, 2023

For additional information or to submit technical questions, go to: https://createpoint.gti.gualcomm.com

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> Qualcomm Technologies, Inc. 5775 Morehouse Drive San Diego, CA 92121 Ŭ.Ś.A.

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Revision history

| Revision | Date | Description |
|----------|----------------------------|---|
| AA | January 2023 | Initial release |
| AB | March 2023 | Revision to include FCC 6GHz statement. Added NCM835 and model number plan. Updated chip model. |
| AC | March 2023 | Added EU and UK EIRP power information. Added Canada antenna separation distance. Added RED and UKCA DoC instruction. |
| AD | April 2023 | Removed chip variants information from Chapter 1 |
| AE | August 2023 | Update IC bystander SAR and FCC/IC 5mm modular SAR information in Section 7. |
| | Confidentia Confidentia | information in Section 7. |

Contents

| 1 Introduction | 6 |
|---|----|
| 2 Applicable Module | 7 |
| 3 Available Global Modular Approvals from Qualcomm | 8 |
| 4 Additional Regulatory Conformance Testing and/or Submissions Required by the Integrator | |
| 5 Compliant/Allowable Tx Power File | 10 |
| 6 Allowable Antennas to Use with the Radio Module | 11 |
| 7 Antenna Placement Inside the Host System and RF Exposure | 13 |
| 8 Simultaneous Transmission with Other Integrated or Plug-In Radios | 15 |
| 9 Module May Not Be Installed by End Users.10 Required Labeling on the Outside of the Host | 16 |
| 10 Required Labeling on the Outside of the Host | |
| 10.1 FCC | |
| 10.2 Taiwan NCC | |
| 10.3 European Community Radio Equipment Directive (RED) | |
| 10.4 UKCA | 19 |
| 11 Required Labeling on the Module | 20 |
| 11.1 FCC labeling on the Module | |
| 11.2 Rest of world labeling on the Module | 20 |
| 11.3 Instructions to download the sample global label artwork with certification IDs | 20 |
| 12 Required Regulatory Wording for User Manual/Installation Manual | 21 |
| 12.1 FCC compliance information | 21 |
| 12.2 Industry Canada Notices | 22 |
| 12.3 European Community (RED) user manual wording and declaration | |
| 12.4 European Community (RED) Declaration of Conformity for System | 25 |
| 12.5 RED and UKCA Declaration of Conformity for System | 25 |
| 12.6 UKCA output power | |
| 12.7 Taiwan user manual wording | |
| 12.8 Korea user manual wording | 26 |

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Contents

4

| 12.10 Japan user manual wording2 | 12.9 Brazil user manual wording | |
|----------------------------------|---------------------------------|--|
| | - | |
| 12 ()EM/ Integrator Checklist | 12 OEM Integrator Checklist | |



Tables

| Table 2-1 Hardware variant SKUs |
|--|
| Table 6-1 Allowed maximum gain (dBi), including antenna cable loss |
| Table 12-1 Maximum EIRP power in EU |
| Table 12-2 Maximum EIRP power in UK |
| Table 12-2 Maximum EIRP power in UK |

1 Introduction

This document provides instructions and steps that the OEM Integrator must follow when designing and manufacturing a system using a Qualcomm[®] design radio module, the "Module".

CAUTION: Failure to follow the instructions in this document may invalidate the FCC certification and authorization of the Module for use in the U.S. and in other countries.

The OEM integrator is responsible for all system-level EMI/EMC and product safety testing and certification that apply to the host system in the U.S. and other countries where the system will be marketed or sold.

The Qualcomm modular certifications described in this document only apply to radio conformance for the Module.

2 Applicable Module

Regulatory model: QCNCM865

Original FCC ID: J9C-QCNCM865 Razer FCC ID: RWO-RZ090508 Original IC: 2723A-QCNCM865 Razer IC: 8092D-RZ090508

■ QCNCM865 has Hardware variant SKUs to support the different Microsoft Windows platform systems and features listed in Table 2-1.

Table 2-1 Hardware variant SKUs

| SKU | Support platform system and feature | |
|--|--|--|
| NCM865 | X86 platform, support DBS and HBS | |
| NCM865A | Qualcomm platform, support DBS and HBS | |
| NCM835 | X86 platform, support DBS | |
| NCM835A | Qualcomm platform, support DBS | |
| Note 1: Regulatory are shared or separated per region/country. See detail in Table 2-2. Note 2: Refer to Qualcomm document <i>QCNCM865 Regulatory Label Guide</i> (80-58493-4) for details of certification ID for different SKU. | | |

 QCNCM865 high-level regulatory leverage map. All regulatory certificates use QCNCM865 as single regulatory model except few regions/certs as explicitly indicated below:

Table 2-2 Regulatory cert and model number map

| sкu | US/Canada | EU/ UK /Australia /New Zealand | Japan | Korea ROC | China | Taiwan | Rest of the World |
|---------|--------------------|-----------------------------------|--------------------|--------------------|-------------------|--------------------|----------------------|
| NCM865 | Shared | Shared | Shared | Shared | Model: NCM865 | Shared | Shared |
| NCM865A | Model: QCNCM865 | Model: QCNCM865 | Model: QCNCM865 | Model: QCNCM865 | Model: NCM865A | Model: QCNCM865 | Model: QCNCM865 |
| NCM835 | | | Shared | | Model: NCM835 | Shared | |
| NCM835A | | | Model: QCNCM835 | | Model: NCM835A | Model: QCNCM835 | |

3 Available Global Modular Approvals from Qualcomm

Module certification is limited to those countries in which Qualcomm has obtained radio modular approvals.

For integrators to access the current list of certified countries:

- 1. Log on to the Qualcomm CreatePoint system.
- 2. Search for the regulatory document under chip model WCN7850/WCN7851
- NOTE: If integrators do not have access to the Qualcomm CreatePoint system, contact a Qualcomm account representative to request access to the country list and modular certificates.

. coun radio certificati that country is not a OEM integrators must receive their own radio certification for each country where the system will be sold if a modular certification for that country is not available from Qualcomm.

4 Additional Regulatory Conformance Testing and/or Submissions Required by the Integrator

Global Modular certifications only apply to radio conformance for the Module.

- The OEM integrator is responsible for any additional system-level EMI/EMC and product safety testing and certifications that apply in the U.S. and other countries where the host system is containing the Module. This includes, but is not limited to, Federal Communications Commission (FCC) Part 15 Class B Digital Emissions, China CCC, Taiwan BSMI, Korea KC, ETSI EN 301 489-17, and others.
- These system-level EMC tests are done with the Module installed and included in the scope of the submission.

Modular radio certification is not possible in some countries.

- For these countries, OEM integrators must ensure radio certification for the end system is obtained before placing the product on the market.
- The current list of applicable countries is provided by Qualcomm.

For questions, additional regulatory conformance testing information, and/or related submissions, contact a Qualcomm account representative.

5 Compliant/Allowable Tx Power File

This file contains the transmit power settings that are programmed in the board-data file in the software. The software image is installed at the time of manufacture of the module.

The board data information is provided by Qualcomm. Contact a Qualcomm account representative for details on the board data file (BDF).

CAUTION: For US and Canada 6GHz. This module is under control Low-power indoor access point and Standard power Access Point, And can adjust a transmitter's output power based on access point categories which to connected (for example. Module transmit power/PSD will be limited to low power indoor compliant power when connect to LPI AP). This function is auto controlled by software.

6 Allowable Antennas to Use with the Radio Module

The module is certified for use only with certain types of antenna described in this chapter.

- NOTE: Allowed antenna type PIFA and MONOPOLE type with omnidirectional pattern antenna.
- NOTE: End host product must use an integrated antenna the antenna is integrated in the host mechanical housing.

| Frequency | PIFA type (dBi) | MONOPOLE type (dBi) | Max. gain (dBi) for Japar and Korea antenna filing/listing | |
|-----------------|-----------------|------------------------|--|--|
| 2.4 GHz | 3.53 (H or V) | 3.22 (H or V) | 3.53 (H or V) | |
| 5.150-5.250 GHz | 3.06 (H or V) | 3.35 (H or V) | 3.35 (H or V) | |
| 5.250-5.350 GHz | 3.07 (H or V) | 3.42 (H or V) | 3.42 (H or V) | |
| 5.470-5.725 GHz | 4.81 (H or V) | 4.77 (H or V) | 4.81 (H or V) | |
| 5.725-5.850 GHz | 4.2 (H or V) | 4.72 (H or V) | 4.72 (H or V) | |
| 5.850-5.895 GHz | 5.09 (H or V) | 4.71 (H or V) | 5.09 (H or V) | |
| 5.925-6.425 GHz | 5.14 (H or V) | 4.75 (H or V) | 5.14 (H or V) | |
| 6.425-6.525 GHz | 5.09 (H or V) | 4.29 (H or V) | 5.09 (H or V) | |
| 6.525-6.875 GHz | 5.16 (H or V) | 4.81 (H or V) | 5.16 (H or V) | |
| 6.875-7.125 GHz | 5.12 (H or V) | 4.74 (H or V) | 5.12 (H or V) | |

Table 6-1 Allowed maximum gain (dBi), including antenna cable loss

CAUTION: For US, Canada, and Taiwan, all use of other antenna types or the same type of antenna but with higher gain than listed in Table 6-1 is not allowed without additional testing and appropriate permissiv change approval.

Use of other similar type antennas may only require a C1PC to confirm SAR performance is the same or better, i.e., lower, but only an equivalent type antenna can be used without any additional testing/submission.

Contact a Qualcomm account representative for additional guidance if you choose to use different antenna types or higher gain antennas in the end system.

Some examples of antennas Not considered the same type as PIFA or Monopole:

- Dipole
- PCB trace
- Patch
- Chip antennas

In addition, regulatory agencies in Japan, Korea, and Taiwan require submission of antenna specification sheets for all antenna models used with the Qualcomm module. This notification process must be followed by the integrator before the original product launch and whenever new host systems, with new antenna models, are launched.

The antenna type does not matter in Japan and Korea antenna filing/listing as long as host platform antenna gain does not exceed max. gain value as represented in Table 6-1.

Notification of all antenna models to be used with the Module

For training on the notification process and submitting antenna specifications, send an email to: qca.ant@qti.Qualcomm.com

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7 Antenna Placement Inside the Host System and RF Exposure

The FCC and regulatory bodies of other countries impose strict conditions and limitations on the RF exposure levels of end products.

Acceptable RF exposure levels for the Module depend on:

- Transmit power.
- Location of the transmitting antenna(s) inside the host system.
- Expected separation of the transmitting antennas to the end user.

OEM integrators must take great care to ensure each host system complies with the applicable RF exposure requirements.

For FCC

- The antenna-to-user separation distance must be >20 cm.
- Modular SAR of 5 mm antenna-to-user separation distance is also achieved in the FCC grant with reduced power. Contact Qualcomm if there is a need to implement reduced power to leverage 5 mm modular SAR.

For IC Canada

- The antenna-to-user separation distance must be >20 mm.
- With the default power setting, 14 mm bystander modular SAR is achieved in the IC grant. To ensure compliance with the radio frequency (RF) exposure guidelines, the device must be used at least 14 mm away from the body or nearby persons. Failure to observe this warning could result in the RF exposure levels exceeding the applicable limits.
- Modular SAR of 5 mm antenna-to-user separation distance is also achieved in the same IC grant with reduced power. Contact Qualcomm if there is need to implement reduced power to leverage 5mm Modular SAR.
- CAUTION: Failure to adhere to these separation/spacing rules will invalidate the FCC certification for the Module.
 - This separation is measured between the closest point of each transmitting antenna inside the host device to the point of contact by the user or nearby person outside of the host device.
 - For notebooks/netbooks/laptops with antenna(s) in the display section, the LCD is opened 90 degrees/perpendicular to the keyboard. The separation distance is then measured from the nearest point of each transmitting antenna to the bottom of the host.

NOTE: When one or more of these conditions cannot be met for a particular host system, additional testing is required to secure the necessary certifications for the system.

Contact a Qualcomm account representative with any questions regarding compliance for host system(s) with these restrictions.

NOTE: These restrictions do not apply to a receive-only antenna.



8 Simultaneous Transmission with Other Integrated or Plug-In Radios

The FCC imposes conditions and limitations when additional radio(s) are co-located in the same host system as the Qualcomm Module with capability to transmit simultaneously.

- Co-locating other radios, such as an integrated or plug-in wireless WAN/cellular radio with the Qualcomm wireless LAN module requires additional evaluation and possible submission for authorization from the FCC.
- The rules are highly dependent on the characteristics of the particular radios that are colocated and simultaneously transmitting.
 - The OEM integrator should seek guidance from a knowledgeable test lab or consultant to determine if additional testing and FCC certification is required.
 - In this case, failure to evaluate and follow the required FCC procedures will invalidate the FCC certification of the Module and end system.

Detailed rules from the FCC are described in various Knowledge Database (KDB) publications and can be found using the following instructions.

- 1. To download the FCC rules for co-located radios:
 - a. Go to https://apps.fcc.gov/oetcf/kdb/index.cfm
 - b. Enter 616217 in the 'publication number' search box
 - c. Download latest applicable version of KDB 616217 document.
- For expert advice regarding co-location rules, the recommendation is to contact an FCCapproved Telecommunication Certification Body (TCB):
 - a. Go to https://apps.fcc.gov/oetcf/kdb/index.cfm.
 - b. Choose the country and/or state from the pull-down list.
 - c. Scroll through the search results and choose a TCB contact from which to seek advice.
- 3. Contact a Qualcomm account representative with any questions regarding compliance of the host system(s) with the above restrictions.

15

9 Module May Not Be Installed by End Users

FCC rules require that the Module be installed in host systems at the factory by the OEM integrator.

- End users of the system may not install the Module.
- The host product user instructions must not advise the end user on how to access or remove the Module.
- Additional FCC authorization/filing is needed to allow end user installation of radio modules.

If modules are provided to end users for installation in the host, a two-way authentication protocol is required to limit the Module to operate only with authorized host systems.

For more details, refer to FCC KDB 996393 found at https://apps.fcc.gov/oetcf/kdb/index.cfm I.

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16

10 Required Labeling on the Outside of the Host

Explanatory text in red font must not be included in the final label.

10.1 FCC

The FCC requires a label on the outside of the host system visible to the end user.

Example wording is:

Contains: FCC ID: XXX-XXXXXXX IC: XXXXX-XXXXXX

(Replace X's with actual IDs found in Section 2).

The FCC requires a logo signifying emissions compliance on the outside of the host system.

Additional options are available for placement of the FCC label on the host. Refer to the FCC Knowledge Database KDB 784748 found at https://apps.fcc.gov/oetcf/kdb/index.cfm.

NOTE: The Integrator is responsible for performing FCC Part 15 Class B digital emissions testing on the end-system with the radio Module installed. The FCC logo that follows should not be affixed, unless the OEM integrator has obtained the necessary Part 15 approval, e.g., self-declaration of conformity.

If the host system is approved to FCC Class B digital emissions limits under a grant of certification issued by a TCB, the FCC ID number shown on the grant should be used on the label instead of the FCC logo that follows.



10.2 Taiwan NCC

Taiwan NCC requires a label on the outside of the host system visible to the end user. The required wording is:

| 太產品内含射頻模组· | <pre>XXXyyyLPDzzzz-x</pre> |
|----------------|----------------------------|
| イルエロルノロオリクトに入る | NNYYYLI DZZZZ-A |

(Replace X's with actual IDs).

10.3 European Community Radio Equipment Directive (RED)

The European Community RED (Radio Equipment Directive) requires the CE Marking shown as follows on the outside of the host AND on the outside of the shipping container/packaging:

adesect

CE

The European Community RE Directive also requires the following note to consumers <u>on the</u> <u>outside of the shipping container/packaging:</u>

NOTE: The Integrator is expected to translate the text in this Section into the appropriate local languages for the European countries in which the product will be marketed or sold.



| AT | BE | BG | CZ | DK | EE | FR |
|----|----|----|----|----|----|----|
| DE | IS | IE | IT | EL | ES | CY |
| LV | LI | LT | LU | HU | MT | NL |
| NO | PL | PT | RO | SI | SK | TR |
| FI | SE | СН | UK | HR | | |

The full text of the RED is located at:

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:32014L0053

10.4 UKCA

It is required to show the following <u>on the outside of the host</u> AND <u>on the outside of the shipping</u> <u>container/packaging:</u>



11.1 FCC labeling on the Module

The Integrator must ensure that the FCC ID (as indicated in Section 2) is affixed on the Module along with other country certification numbers and logos as described in this section.

NOTE: The Module ODM may affix regulatory labeling at time of the Module manufacturing. However, the PCOEM must ensure the Module label is complete, correct, and applicable for all countries where the host system will be imported, marketed, or sold.

11.2 Rest of world labeling on the Module

The Integrator must ensure the Module includes a global regulatory label with certification numbers and logos for all target countries.

- The system integrator is responsible for confirming the final regulatory label on the radio Module contains all required certification IDs for all countries in which the system will be marketed or sold.
- It is recommended that the PCOEM implement a review and sign-off process and change control process with each Module ODM to ensure the Module label meets the PCOEM requirements.

Qualcomm provides sample artwork with the applicable certification numbers for this Module.

- The PDF document can be opened using Adobe Illustrator, so the sample artwork can be copied and modified as needed.
 - Therefore, the final label produced by the Module manufacturer will vary from this sample.
 - However, the logos and certification numbers must be those shown in the sample global label.

Contact a Qualcomm account representative with any questions regarding module labeling.

11.3 Instructions to download the sample global label artwork with certification IDs

- 1. Log on to the Qualcomm CreatePoint system.
- 2. Follow the links and instruction provided by Qualcomm for regulatory certifications.
- 3. Find: Sample labeling for the Module.
- 4. Download the PDF file found in the folder.

NOTE: Search for the chip model in the Qualcomm CreatePoint system.

OR, if you do not have access to the Qualcomm CreatePoint system, contact a Qualcomm account representative.

12 Required Regulatory Wording for User Manual/Installation Manual

The integrator must include text in the user manual meeting the regulators requirements. Text in the following sections or similar wording should be used.

NOTE: Text in red font must be replaced.

12.1 FCC compliance information

FCC compliance information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate warranty and all applicable regulatory certifications and approvals, including authority to operate this device.

FCC Part 15 Digital Emissions Compliance

We [System Manufacturer Name, Address, Telephone], declare under our sole responsibility that the product [System Name] complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet prepared by the Federal Communications Commission helpful:

The Interference Handbook

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No.004-000-00345-4.

RF Exposure Statement

Radiation Exposure Statement

The product complies with the FCC portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body or by setting the device to lower output power if such function is available.

FCC 6GHz statement

Prohibited for control of or Communications with unmanned aircraft systems, including drones.

Appendix B attestation of KDB 987594

- Contention-Based Protocol, as demonstrated in the FCC test report, is permanently embedded in the module and is not host-dependent, can't change by anyone.
- Installation restrictions: Physical restrictions associated with the equipment classes for host products (wired power, integral antenna, non-weatherized enclosure) as conditions-of-use through the host manufacture's integration instructions.

12.2 Industry Canada Notices

This device complies with Canadian RSS-247.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

NOTE: For 5GHz and/or when co-located with 5 GHz transmitters, the following statements should be provided in the user information

Caution :

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

(iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

(iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.;

(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas. (iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

RF Exposure Statement

Radiation Exposure Statement

The product complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body or by setting the device to lower output power if such function is available.

ISED 6GHz statement

- Operation on oil platforms, cars, trains, boats and aircraft shall be prohibited except for on large aircraft flying above 10,000 ft.
- Utilisation interdite à bord de plateformes de forage pétrolier, de voitures, de trains, de bateaux et d'aéronefs, sauf à bord d'un gros aéronef volant à plus de 10 000 pieds d'altitude.

12.3 European Community (RED) user manual wording and declaration

NOTE: Text must be replaced with name of company responsible for placing the system on the European Community Market.

Europe – EU Declaration of Conformity

Marking by this symbol indicates compliance with the Essential Requirements of the RED of the European Union (**2014/53/EU**). This equipment meets the following conformance standards:

EN 300 328, EN 301 893, EN 301 489-17, EN 62368-1, EN 62311

| دة Česky [Czech] | <i>[COMPANY NAME]</i> tímto prohlašuje, že tento Radiolan je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU. |
|---------------------|--|
| da Dansk [Danish] | Undertegnede [COMPANY NAME] erklærer herved, at følgende udstyr Radiolan overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU. |
| de Deutsch [German] | Hiermit erklärt <i>[COMPANY NAME]</i> dass sich das Gerät Radiolan in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU befindet. |

| et Eesti [Estonian] | Käesolevaga kinnitab [COMPANY NAME] seadme Radiolan vastavust direktiivi 2014/53/EU põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. |
|---------------------------|---|
| en English | Hereby, [COMPANY NAME], declares that this Radiolan is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. |
| es Español [Spanish] | Por medio de la presente <i>[COMPANY NAME]</i> declara que el Radiolan cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU. |
| el Ελληνική [Greek] | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>[COMPANY NAME]</i> ΔΗΛΩΝΕΙ ΟΤΙ Radiolan ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU. |
| fr Français [French] | Par la présente [COMPANY NAME] déclare que l'appareil Radiolan est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU. |
| Íslenska [Icelandic] | Hér með lýsir [COMPANY NAME] yfir því að Radiolan er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU. |
| it Italiano [Italian] | Con la presente [COMPANY NAME] dichiara che questo Radiolan è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU. |
| Latviski [Latvian] | Ar šo [COMPANY NAME] deklarē, ka Radiolan atbilst Direktīvas 2014/53/EU būtiskajām prasībām un citiem ar to saistītajiem noteikumiem. |
| It Lietuvių [Lithuanian] | Šiuo [COMPANY NAME] deklaruoja, kad šis Radiolan atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas. |
| mt Malti [Maltese] | Hawnhekk, [COMPANY NAME], jiddikjara li dan Radiolan jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti ohrajn relevanti li hemm fid-Dirrettiva 2014/53/EU. |
| hu Magyar [Hungarian] | Alulírott, <i>[COMPANY NAME]</i> nyilatkozom, hogy a Radiolan megfelel a vonatkozó alapvető követelményeknek és az 2014/53/EU irányelv egyéb előírásainak. |
| nl Nederlands [Dutch] | Hierbij verklaart [COMPANY NAME] dat het toestel Radiolan in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU. |
| no Norsk [Norwegian] | [COMPANY NAME] erklærer herved at utstyret Radiolan er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EU. |
| pl Polski [Polish] | Niniejszym [COMPANY NAME] oświadcza, że Radiolan jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/EU. |
| pt Português [Portuguese] | [COMPANY NAME] declara que este Radiolan está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU. |
| ্যা Slovensko [Slovenian] | <i>[COMPANY NAME]</i> izjavlja, da je ta Radiolan v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU. |
| Slovensky [Slovak] | <i>[COMPANY NAME]</i> týmto vyhlasuje, že Radiolan spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU. |
| fi] Suomi [Finnish] | [COMPANY NAME] vakuuttaa täten että Radiolan tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. |
| उप Svenska [Swedish] | Härmed intygar [COMPANY NAME] att denna Radiolan står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU. |

For European Community 5GHz:

Operations in the 5.15-5.35GHz band are restricted to indoor usage only.

For Frequency and maximum transmit power in EU:

Table 12-1 Maximum EIRP power in EU

| Module EIRP power (Average power) | 2.4GHz: 19.96 dBm |
|--|---|
| * The EIRP is basing on | 5GHz |
| typical antenna gain as described in Table 6-1 | 5150~5250 MHz: 22.99 dBm |
| | 5250~5350 MHz: 22.88 dBm |
| | 5470~5725 MHz: 22.92 dBm |
| | 5725 ~ 5875 MHz: 13.95 dBm |
| | 6GHz LPI client: 22.98 dBm VLP: 13.97 dBm |
| | 2.4GHz Bluetooth BT-EDR: 19.17 dBm |
| | BT-LE: 18.75 dBm |

12.4 European Community (RED) Declaration of Conformity for System

In addition to including the radio conformity wording described in Section 12.3, the end integrator must also create and sign a European Declaration of Conformity (DoC) for all European Directives applicable to the end product.

- At a minimum, this will be a DoC per the RED Directive covering the essential requirements.
- The DoC must reference harmonized standards used for all radios present in the system.
- NOTE: An image of the DoC signed by the OEM integrator may be included in the user manual or a link to the DoC on the integrator's company website should be provided in the user documentation.

12.5 RED and UKCA Declaration of Conformity for System

The integrator must include text in the user manual meeting the regulators requirements. Text in the following sections or similar wording should be used.

Hereby, [Qualcomm Technologies, Inc.] declares that the radio equipment type xxxxxx (platform model which has QCNCM865 embedded) is in compliance with Directive 2014/53/EU and UK Radio Equipment Regulations 2017 SI 2017/1206.

The full text of the EU declaration of conformity should be provided in public website.

12.6 UKCA output power

Table 12-2 Maximum EIRP power in UK

| Module EIRP power (Average power) | 2.4GHz: 19.96 dBm |
|--|-------------------------------|
| * The EIRP is basing on typical antenna gain as described in Table 6-1 | 5GHz |
| | 5150~5250 MHz: 22.99 dBm |
| | 5250~5350 MHz: 22.88 dBm |
| | 5470~5725 MHz: 22.92 dBm |
| | 5725 ~ 5825 MHz: 22.96 dBm |
| | 6GHz LPI client: 22.98 dBm |
| | VLP: 13.97 dBm |
| | 2.4GHz Bluetooth |
| | BT-EDR: 19.17 dBm |
| | BT-LE: 18.75 dBm |

12.7 Taiwan user manual wording

台灣:國家通訊傳播委員會

取得審驗證明之低功率射頻器材,非經核准,公司、商號或使用者均不得擅自變更頻率、加大功 率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信;經發現 有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前述合法通信,指依電信管理法規 定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備 之干擾。

應避免影響附近雷達系統之操作

高增益指向性天線只得應用於固定式點對點系統。

12.8 Korea user manual wording

Korea KCC

해당 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

12.9 Brazil user manual wording

Hosts using approved modules would be required to put label information on the product or statement in the user manual:

Este produto contém a placa xxxx código de homologação Anatel NNNN-NN-NNNN Translation:

This product contains the module xxxx Anatel approval code NNNNN-NN-NNNNN

User manual statement:

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra

interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a

sistemas operando em caráter primário.

Host products that are not subject to Anatel approval, but include this approved module must include in their manual, quick guide, or by other authorized means in Act 4088, the following information:

"Incorpora produto homologado pela Anatel sob número HHHHH-AA-FFFFF".

Translation:

"Incorporates product approved by Anatel under number HHHHH-AA-FFFFF".

12.10 Japan user manual wording

It is required to have 5GHz W52, W53 band indoor use warning provide in user manual: 5GHz band (W52,W53): Indoor use only (except communicate to high power radio) 5GHz 帯(W52, W53)は屋内利用に限る (高出力システムと通信する場合を除く)

The party below will implement the Qualcomm Module in host systems in accordance with the instructions specified in this document and the documents referenced herein.

- □ The OEM integrator will ensure the Module is integrated in a host systems using only the approved antenna model(s) described in this document.
- The OEM integrator will ensure the antenna placement inside the host system will maintain the required spacing to end user for RF Exposure compliance, as specified in this document.
- If other radios are integrated inside the host with the Qualcomm Module, the OEM integrator will contact its test lab, TCB or Qualcomm to determine if additional FCC compliance evaluation is required to meet FCC collocation rules.
- The OEM integrator will ensure end user documentation will contain the specified regulatory wording and ensure the host system and the Module itself are labeled as specified in this document.
- □ The OEM integrator will ensure the Module is programmed in the factory with compliant transmit power not exceeding the levels specified in this document.

Qualcomm Incorporated requests that the OEM integrator acknowledge its receipt of this document and the above instructions. You may contact Qualcomm with any questions concerning this document or the responsibilities of the OEM integrator.

| Company Name | Confidentio8 @rat | Signature | <u></u> |
|-----------------|-------------------|-----------|---------|
| Company Address | 20 nns | Name | |
| | | Title | |
| | | Email | |
| | | Phone | |
| | | Date | |

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NOTE: Email a signed and completed copy of this acknowledgment to moduleinstructions@qualcomm.com.