



Qualcomm Technologies, Inc.

QC64MA Integrator Instructions

80-YD142-3 Rev. E

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For additional information or to submit technical questions, go to: <https://createpoint.qti.qualcomm.com>

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Revision history

Revision	Date	Description
A	April 2019	Initial release
B	May 2019	Updated
C	May 2019	Additional content added to Section 5.1, page 10 and minor edits.
D	June 2019	Updated Section 2.2
E	June 2019	Updated section 5.2 with "Operation on Aircraft Statement".

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1 Introduction

1.1 Applicable module

- Part number: QC64MA (regulatory model name: QC64MA)
- FCC ID: J9C-QC64MA
- IC: 2723A-QC64MA

1.2 Purpose and scope

This document describes the steps that the OEM integrator must follow when designing and manufacturing a system utilizing a Qualcomm Technologies Inc. (QTI) design radio module (the “Module”).

Failure to follow instructions in this document may invalidate the Federal Communications Commission (FCC) certification and authorization of the Module for use in the U.S. and in other countries.

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

2 Available Global Modular Approvals

2.1 Qualcomm approval

Module certification is limited to those countries for 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 QCA6438.

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.

OEM integrators must receive their own radio certification for any country in which the system will be sold if a modular certification for that country is not available from Qualcomm.

2.2 Additional regulatory conformance testing

- Global modular certifications apply to radio conformance for the Module only.

The Qualcomm® modular certifications described in this document apply only to radio conformance for the module. 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. For testing of the host system, please follow guidance provided in FCC KDB 996369 D04

System level compliance tests include, but are not limited to, FCC Part 15 Class B Digital Emissions, Taiwan BSMI, ETSI EN 301 489-1, EN 301 489-17, etc.

- Modular radio certification is not possible in some countries.

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

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

3 Antenna Placement and RF Safety

For a 60GHz antenna inside the host, the antenna-to-user separation distance must be greater than 20 cm.

WARNING: Failure to adhere to these separation/spacing rules will invalidate FCC certification for the Module.

3.1 Simultaneous transmission

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

To download FCC rules for co-located radios:

1. Go to <https://apps.fcc.gov/oetcf/kdb/index.cfm>.
2. Enter 616217 in the **Publication Number** search box
3. Download the latest applicable version of KDB 616217.

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 possibly submission for authorization from the FCC.

FCC rules are highly dependent on characteristics of the particular radios that are co-located 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.

Failure to evaluate and follow required FCC procedures will invalidate FCC certification of the Module and end system.

For expert advice regarding co-location rules, it is recommended to contact an FCC-approved Telecommunication Certification Body (TCB):

1. Go to <https://apps.fcc.gov/oetcf/kdb/index.cfm>.
2. Choose your country and/or state from the pull-down list.
3. Scroll through the search results and choose a TCB contact from which to seek advice.

Users may also contact a Qualcomm account representative with any questions regarding compliance of the host system(s) with the above restrictions.

4 Required Labels

4.1 Federal Communications Commission

The FCC requires:

- A label on the outside of the host system that is visible to the end user (see [Figure 4-1](#)).
 - To complete the label, enter the actual IDs listed in Section 1.1.
- A logo signifying emissions compliance on the outside of the host system (see [Figure 4-2](#)).
 - Additional options are available for placement of the FCC label on the host. Please refer to the FCC Knowledge Database KDB784748 found at <https://apps.fcc.gov/oetcf/kdb/index.cfm>.

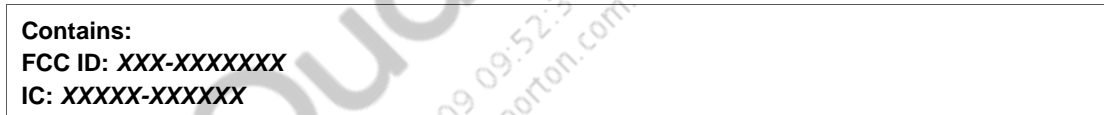


Figure 4-1 FCC label



Figure 4-2 FCC logo

NOTE: The Integrator is responsible to perform FCC Part 15 Class B digital emissions testing on the end system with the radio Module installed. The FCC logo 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.

4.2 Taiwan National Communications Commission

The Taiwan National Communications Commission (NCC) requires a label on the outside of the host system that is visible to the end user (see [Figure 4-3](#)).

To complete the label, enter the actual IDs listed in Section 1.1.



Figure 4-3 Taiwan NCC label

4.3 European Community RED

The European Community RED Directive requires the CE Marking on the outside of the host AND on the outside of the shipping container/packaging (see [Figure 4-4](#)).



Figure 4-4 European Community logo

5 Required Regulatory Wording

The integrator must include text in the user manual meeting regulators' requirements. The text below or similar wording should be used.

5.1 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

NOTE: Text in red font must be replaced.

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.

Radiation Exposure Statement

The product complies with the FCC mobile RF exposure limit set forth for an uncontrolled environment and are 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 body or set the device to lower output power if such function is available.

For a 60GHz antenna inside the host, the antenna-to-user separation distance must be greater than 20 cm.

WARNING: Failure to adhere to these separation/spacing rules will invalidate FCC certification for the Module.

Operation on Aircraft Statement

This device is not to be operated on aircraft except for the conditions listed on CFR 47 §15.255 (b).

5.2 Industry Canada notice

This device complies with Canadian RSS-210.

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-210 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.

This device and its antenna(s) must not be co-located with any other transmitters except in accordance with IC multi-transmitter product procedures. Referring to the multi-transmitter policy, multiple-transmitter(s) and module(s) can be operated simultaneously without reassessment permissive change.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

Radiation Exposure Statement

The product complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and are 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 body or set the device to lower output power if such function is available.

Operation on Aircraft Statement

This device is not to be operated on aircraft except for the conditions listed on ISED RSS-210 Annex J.1

5.3 Taiwan user manual

台灣: 國家通訊傳播委員會

低功率電波輻射性電機管理辦法

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6 OEM Integrator Checklist

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 system 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 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 _____	Signature _____
<hr/>	
Company Address _____	Name _____
_____	Title _____
	Email _____
	Phone _____
	Date _____

Please email a signed and completed copy of this acknowledgment to:
moduleinstructions@qualcomm.com.