



Carnegie Robotics 55001384 Integration Instructions

Description:

Qualcomm® Robotics RB5 Core Kit consisting of Thundercomm TurboX C865 System on Module with customization around 12GB Ram and external antennas enabled for system integration.

See Qualcomm or Thundercomm hardware manuals for specifications to each product.

Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01 (ISED recognized)

2.2 List of applicable FCC rules

CFR 47 FCC PART 15 SUBPART C&E has been investigated. It is applicable to the modular.

Specifically, an assessment of the worst case operating conditions has to be performed by the module integrator and tested on the host product for compliance to FCC part 15.247 and part 15.407.

2.3 Specific operational use conditions

This module is a stand-alone module. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, the host manufacturer has to consult with the module manufacturer for the installation method in the end system.

2.4 Limited module procedures. - Not applicable

2.5 Trace antenna designs. - Not applicable

2.6 RF exposure considerations

To maintain compliance with FCC's and ISED's RF Exposure guidelines, this equipment should be installed and operated at a minimum distance of 20cm from your body.

2.7 Antennas

This radio transmitter FCC ID: **2AMDR-55001384** / IC: **24410-55001384**

has been approved by the Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Internal Identification	Antenna Description	Antenna type	Maximum antenna gain
Antenna 0**	Wi-Fi Antenna	External Antenna 2X MIMO WIFI	2.4G Wi-Fi: 1.2 dBi, 5G Wi-Fi: 2.0dBi
Antenna 1	Wi-Fi Antenna	External Antenna 2X MIMO WIFI	2.4G Wi-Fi: 1.2 dBi, 5G Wi-Fi: 2.0dBi

****Bluetooth has been disabled on device and has not been tested**

Antennas Tested:

- Abracon Part Number AECW0401W2-0600F_DS
- Taoglas MA210.K.CG.001

2.8 Label and compliance information.
The final end product must be labeled in a visible area with the following:

Contains FCC ID: **2AMDR-55001384**, IC: **24410-55001384**

2.9 Information on test modes and additional testing requirements
Host manufacturers are strongly recommended to confirm compliance with FCC and ISSED requirements for the transmitter when the module is installed in the host.

2.10 Additional testing, Part 15 Subpart B and ICES-003 disclaimer
The host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as FCC Part 15 B and ICES-003.

FCC Caution:



Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC and ISDE Statements

This device complies with Part 15 of the FCC Rules and with ICES-003 of the ISDE 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.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique (d'ISDE) Canada applicables aux appareils radio. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IMPORTANT NOTE:

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 and ICES-003 of the ISDE Canada rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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 that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Statements regarding human exposure

With respect to radiofrequency radiation exposure Information, it is declared that this equipment complies with FCC and ISDE radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated at a minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Déclarations concernant l'exposition humaine

Respectant les informations relatives à l'exposition aux radiations de fréquences radio, on déclare que cet équipement respecte les limites d'exposition aux radiations de l'ISDE aux conditions prévues pour un environnement non contrôlé.

Cet équipement doit être installé et fonctionner à une distance minimale de 20 cm entre l'appareil irradiant et votre corps.

Cet émetteur ne doit pas être installé ou utilisé en conjonction avec d'autres antennes ou d'autres émetteurs.