



Declaration of Equality Class 2 Permissive Change (C2PC)

Federal Communication Commission
Equipment Authorization Division, Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048

Date: 2025-08-13

TO WHOM IT MAY CONCERN

Pursuant to the applicable paragraphs in ISSED's RSP-100 §7 and CFR 47 FCC part §2.1043(b)(2) we hereby declare the following changes under Class II Permissive Change to the product:

WiFi module Robotics RB5 model ID: 55001384 with:
FCC ID: 2AMDR-55001384

We, Carnegie Robotics Inc. hereby declare the following Class 2 Permissive Change to the WiFi module Robotics RB5 model ID: 55001384 with respect to the FCC regulations of the original certificate for the model ID: 55001384:

- The product name changes from "Robotics RB5" to "RB5 CORE KIT"
- Modification to permanently disable the built-in PCB MIMO antennas and enabling external antennas, by changing the orientation of 0-ohm resistors, see exhibit: **RB5-SOM rework for on-SOM antenna-20210428.pdf**, is handled according to KDB 178919 D01, section III, subclause D + Page3, Note5, bullet 2, as the change is minor to redirect the RF signal to an external antenna.
- Applying two types of antennas for the module integrators "**Taoglas MA210.K.CG.001**" or "**Abrakon AECW0401W2-0600F_DS**".
- The Bluetooth 5.1 + HS and Bluetooth LE (BLE) operating modes are permanently disabled by SW.
- No changes to the product PCB's and RF circuit design.
- The HW changes for direction of the RF signals to an external antenna in the product do not affect any of the RF parts, WiFi 2.4 GHz or 5GHz conducted output power and the RF characteristics of the originally certified product according to the original grant dated 2024-08-07
- The conducted output power settings are unchanged for the RB5 module operating in normal mode according to the factory tune-up procedure.
- The SW has been modified to disable Bluetooth and increase output power in the 2.4 GHz WiFi operating mode for improved performance.

The Class 2 Permissive Changed product RBS CORE KIT will be the only product on the market.

The following exhibits are associated with the C2PC changes performed on the RB5 CORE KIT

Carnegie Robotics LLC, 4501 Hatfield St. Pittsburgh, PA 15201, USA, Phone (412) 527-5882



- 1) User manual (Installation and safety guide)
- 2) Label and label placement document.
- 3) Internal pictures
- 4) External pictures
- 5) Block diagram
- 6) Schematics
- 7) Antenna specifications
- 8) FCC part 15.247 and part 15.407 WiFi delta test report.

If you have any questions, please feel free to contact me at the address shown below.

Signed on behalf of Carnegie Robotics LCC

A handwritten signature in blue ink, appearing to read 'Klaus Nielsen', written over a light blue horizontal line.

Per Klaus Nielsen

Certification Management Consultancy, Manager

Email : pknemc@gmail.com