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 Vat No. IE 6404122R

Cover Letter-Modular Approval

FCC ID: 2AQ33-DWM1004

Date: 15 October 2019

To whom it concerns:

We would like to request modular approval for Decawave’s DWM1004 module. The specific product as below, DWM1004, with its designed features and specified description, meets special requirements for modular approval on FCC KDB996369 by cross-reference list below.

Company	Decawave Limited
Model Name	DWM1004
Model Number	DWM1004C
FCC ID	2AQ33-DWM1004

Requirement of FCC KDB996369	Comply (Yes)
1. The modular transmitter must have its own RF shielding.	Yes. The EUT provides the RF shielding. See the EUT photo.
2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	Yes. The modulation is handled internally in DW1000 UWB chip, which prevents excessive data rates or over-modulation.
3. The modular transmitter must have its own power supply regulation.	Yes. The module has DC/DC voltage converter circuitry for analog and digital signals of the UWB system, please refer to the schematic Diagram.
4. The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a “unique” antenna coupler (at all connections between the module and the antenna, including the cable). The “professional installation” provision of Section 15.203 is not applicable to modules	Yes. The EUT meets the FCC antenna requirements; the antenna cannot be easily removed, it is soldered to the PCB. A photo of antenna is shown in the test report.

Decawave Ltd., Company No: 384122, registered in Dublin, Ireland
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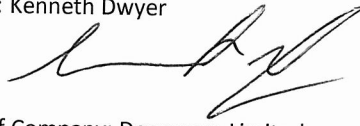
<p>but can apply to limited modular approvals under paragraph (b) of this section.</p>	
<p>5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing.</p>	<p>Yes. The module has firmware that allows it to operate in standalone mode.</p>
<p>6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: 2AQ33-DWM1004" or "Contains FCC ID: 2AQ33-DWM1004" Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.</p>	<p>Yes. The label is placed on the RF shield which is soldered on the module. Please see the exhibit of the label sample. Also in the provided user manual, there are instructions given to the OEM on how to label the end product.</p>
<p>7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.</p>	<p>Yes. The EUT is compliant with all applicable FCC rules. Details instructions for maintaining compliance are given in the user manual.</p>
<p>8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, U-NII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).</p>	<p>Yes. The EUT complies with RF exposure requirement.</p>

Thank you.
Sincerely

Print Name: Kenneth Dwyer

Title: Application Manager

Signature:



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