



KINEIS
11 rue Hermès
31520 Ramonville-Saint-Agne
France

On: January 17th, 2024

To: TUV SUD BAPT UNLIMITED (TCB),
Octagon House,
Concorde Way
Segendwhorth North,
Fareham,
Hampshire
P015 5RL

Object : **Request for a Limited Modular Transmitter Approval**
FCC ID : **2A96E-KIM2-HW1FW1**

<u>Modular Approval Requirement</u>	<u>Requirement met</u>
<p>The radio elements must have the radio frequency circuitry shielded. Physical/discrete and tuning capacitors may be located external to the shield but must be on the module assembly.</p> <p>A metal shield covers all the module components.</p>	YES
<p>The module must have buffered modulation/data inputs to ensure that the device will comply with the Part 15 requirements with any type of input signal.</p> <p>The module stores the data before transmitting over the air always respecting the Kinéis protocol, meaning the transmissions never occurs in less than 60 seconds.</p>	YES
<p>The module must contain power supply regulation on the module.</p> <p>The module integrates some regulators to ensure a proper 3.3V for internal functions and a DC-DC component able to provide a 5V whichever the input voltage supply in the range [3.3-5V], maintaining a constant power level in RF output.</p>	YES
<p>The module must contain a permanently-attached antenna, or contain a unique antenna connector, and be marketed or operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b).</p> <p>The antenna configuration / swapout is by professional installation only, possibly using SMA connector, not RP-SMA.</p>	NO
<p>The module must demonstrate compliance in a stand-alone configuration.</p> <p>The module has been tested in a standalone configuration (interface board offering only some connectors) demonstrating a proper working in respect of the specifications.</p>	YES
<p>The module must be labelled with its permanently fixed FCC ID label, or use an electronic display (See KDB Publication 997198 about labelling requirements).</p> <p>The module has permanent label affixed on the shield giving the minimum information required. The complement is present in the user manual.</p>	YES
<p>The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements.</p>	YES

The module is released with a complete technical documentation, datasheet-integration manual-operational description.	
<p><i>The module must comply with RF Exposure requirements. For any transmitters intended for use in portable devices, SAR compliance must be demonstrated to be independent of the host device. See KDB Publication 447498 item 2 as a guide to determine if a transmitter can be tested without being limited to a host device. If SAR can only be demonstrated in specific host types or platforms, then the module type must be limited.</i></p> <p>The calculations show that the individual transmitters comply with FCC 1.1307(b)(3)(i)(C) MPE-based exception at a minimum distance of 20 cm.</p>	<p>YES</p>

Statements:

Kinéis applies for a limited modular approval only because the antenna is not permanently attached. However, the change can be done by a professional only. Kinéis has demonstrated the compliance with two antennas. The module integrators keen to benefit of the Kinéis approval shall use the same antennas or of same type, even or less efficient.

By:
 Vincent GAMONAL
 Certification engineer

