

**LumenRadio AB**

**RE FCC ID:** [XRSPLUGGY101]

**To the certification reviewer:**

We are hereby applying for full modular approval of the above-referenced FCC ID, based on compliance with all of the criteria as detailed below.

Sincerely,



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[Johannes Arvidsson]  
[CTO]  
[Sep 30, 2024]

**Part 15 Unlicensed Single Modular Transmitter Approval Justifications per 15.212**

<b>Requirement per 15.212</b>		<b>Description</b>
(i)	The radio elements of the modular transmitter must have their own RF shielding.	Shielding is provided by a metal cover the circuitry.
(ii)	The modular transmitter must have buffered modulation/data inputs.	All modulation and data inputs are buffered by circuitry on the transmitter chip.
(iii)	The modular transmitter must have its own power supply regulation.	Power supply regulation is provided by external circuitry of DC 5V
(iv)	The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b) and 15.204(c).	2.4G antenna is IPEX connector.
(v)	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with Part 15 requirements.	Testing was performed with the module extended outside of the host on a special extender boards, as shown in the test setup photos.

<p>(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. 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. See KDB Publication 784748.</p>	<p>A sample of the Module label is provided as an exhibit, showing the FCC ID of the module.</p>
<p>(vii) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete 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>The modular transmitter complies with part 15 as demonstrated in the test report exhibit.</p>
<p>(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.</p>	<p>The modular transmitter complies with RF exposure requirements as demonstrated in the RF exposure information exhibit.</p>