

FCC modular requirement

FCC Part 15.212 Requirement	Comment/Declaration
(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	Radio elements of the modular transmitter have their own shielding. See 15 - External Photos.pdf and 16 - Internal Photos.pdf
(ii) 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.	Modular radio doesn't have modulation circuitry. Input signal is correctly buffered.
(iii) The modular transmitter must have its own power supply regulation.	Inside the Modular radio an DC/DC converter guarantees the stability of each voltage necessary for the proper functioning.
(iv) The modular transmitter must comply with the antenna and transmission system requirements of §§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 §15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	Modular radio is not provided with an external antenna. It is intended to be mounted within a professional finished product. So, you have to consider this equipment to be professionally installed: the final installer shall be responsible for ensuring that the proper antenna is employed so that the limits are not exceed.
(v) The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in §15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see §15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see §15.31(i)).	Modular radio was tested in a stand alone configuration. See Test set-up photo.pdf
(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Modular radio is equipped with a permanently affixed label. See 09a - Label.pdf

<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>Modular radio is complied with specific rules. See RF test report 210165 -1 to -8.</p>
<p>(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.</p>	<p>Yes, it is. See: Teko MPE Prediction_16dBi_250cm_sup1.5.xls Teko MPE Prediction_16dBi_370cm_inf1.5_worst case.xls Teko MPE Prediction_150cm_8dBi_inf1.5_worst case.xls Teko MPE Prediction_150cm_11.5dBi_sup1.5.xls</p>
<p>(iX) Comment</p> <p>(b) A limited modular approval may be granted for single or split modular transmitters that do not comply with all of the above requirements, e.g. , shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable part 15 requirements under the operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured.</p>	<p>None</p>

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Signature **Printed**

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