



Date: August 30, 2016

REF: Model OSDI-4000-1A and OSDI-4000-1D
FCC ID: TMB-OSDI4W1

Subject: Single-modular Transmitters

(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.

Answer: Yes

(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.

Answer: Yes

(iii) The modular transmitter must have its own power supply regulation.

Answer: Yes

(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.

Answer: Yes, see "FCC RequestLetter.pdf" for antenna details with single-modular. The antennas that use the limited single-modular are professionally installed using SMA 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. 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)).

Answer: Yes, see justifications section of the test report.

(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

Answer: Yes

(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.

Answer: Yes

(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

Answer: Yes

A handwritten signature in blue ink, appearing to read "Daniel", followed by a stylized flourish.

Sincerely,

Daniel Tousignant, Eng.
Certification & Compliance Eng.