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Date: Dec. 03, 2014

Subject: Limited Modular Approval letter for the equipment QFN48 (FCC ID: Y82DA14580REFANT; IC: 9567A-DA14580REFANT)

The Dialog Semiconductor BV module QFN48 is seeking FCC/IC authorization as a limited modular transmitter. The requirements of FCC § 15.212 and IC RSP-100 Clause 7.3 are met except for the requirement concerning RF shielding:

Requirement	Complies
FCC: 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.	See note
IC: The radio elements shall 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.	
FCC: 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
IC: The module shall have buffered modulation/data input(s) (if such inputs are provided) to ensure that the module will comply with the requirements set out in the applicable RSS standard under conditions of excessive data rates or over-modulation.	
FCC: The modular transmitter must have its own power supply regulation.	Yes
IC: The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.	
FCC: 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.	Yes
IC: The module shall comply with the provisions for external power amplifiers and antennas detailed in the applicable RSS standard. The equipment certification submission shall contain a detailed description of the configuration of all antennas that will be used with the module.	
FCC: 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)).	Yes
IC: The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be inside another device during testing	
FCC: The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Yes
IC: The module shall comply with the Category I equipment labelling requirements.	
FCC: 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.	Yes
FCC: The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	Yes
IC: The module shall comply with applicable RSS-102 exposure requirements, in its final configuration which are based on the intended use/configurations.	
IC: Is the modular device for an Industry Canada licence-exempt service?	Yes

NOTE: The module will only be sold to OEM manufactures for integration into their own products and will not be sold to any end-users. The OEM/manufactures, which is considered as a professional integrators, will be informed about how to avoid any main-board coupling with the RF part of the module.

Sincerely,


Frank Van Den Dungen
Program Manager