



Attention: Application Examiner

RE: Request for Limited Single Modular Transmitter Approval for FCC ID: ZEH0116

Applicant: PLUS Location Systems USA LLC.

To whom it may concern:

This correspondence addresses information required as part of the request for a modular grant of FCC ID ZEH0116, as described in KDB Publication 996369 D01.

Scope

The approval request is for a Limited Single-Modular Transmitter approval for a device with FCC ID ZEH0116

Limitations for Third Parties

As a Limited Single-Modular Transmitter, the integration of the module and qualification of each host device product will be controlled by PLUS Location Systems USA, LLC (PLUS). PLUS will only sell or provide completed host products to third parties.

PLUS will not provide modules to third parties or enable third parties to integrate the modules. Note that a contract manufacturer building products according to PLUS' specifications is considered to be working under the direction of PLUS, not as an independent third party.

Software Control and Software Defined Radios

For clarification, this device is not a Software Defined Radio (SDR). Additionally, no software parameters are accessible or controllable to set power levels or other characteristics of the device that influence compliance.

Host Product Compliance

Any host product equipment functions not associated with the transmitter module (such as unintentional radiator elements) will be independently tested for compliance. Testing of the host product will be performed with the module installed and operational.

Module as a Printed Wiring Assembly (PWA)

The Limited Module is implemented as a physical Printed Wiring Assembly (PWA) with two electrical connections; a ground connection and 3V DC power.

Non-Accessible Module

The Limited Module integrated into the host device will not be accessible or replaceable by end users.

Integration Instructions

PLUS will maintain product assembly documentation for the Limited Module and host products for use by itself and its contract manufacturer. The Limited Module will not be made available to third parties for integration.

Limited Single-Modular Transmitter

Modular Approval Requirement	Yes	No
(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.		No
(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.	Yes	
(iii) The modular transmitter must have its own power supply regulation.		No
(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	Yes	



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.		
(v) The modular transmitter must be tested in a stand-alone configuration	Yes	
(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	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.	Yes	
(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	Yes	

Based on this information the model 2112 module meets seven of eight criteria for single-modular transmitter. PLUS Location Systems USA LLC would like to seek a Limited Single-Modular Approval for the module. Should you have any questions, please feel free to contact the undersigned.

Sincerely,

A handwritten signature in blue ink, appearing to read 'David Schramm', with a stylized flourish at the end.

Name: David Schramm

Title: EMC Manager / Agent for **PLUS Location Systems USA LLC.**

Date: 17 March 2016