

Modular Approval - FCC

Labelling requirements for Host device:

Source: § 15.212 Modular transmitters.

(A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number 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. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.

(B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization.

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

Grantees are responsible for the continued compliance of their modules to the FCC rules. This includes advising host product manufacturers that they need to provide a physical or e-label stating "Contains FCC ID" with their finished product. See Guidelines for Labeling and User Information for RF Devices – KDB Publication 784748.

COMPREHENSIVE INTEGRATION INSTRUCTIONS

Source: KDB 996369 D01 Module Equip Auth Guide v02 and KDB [996369 D03 OEM Manual v01](#)

For proper integration of modules in end products, it is required that detailed and comprehensive instructions must be provided to the integrators, so that any subsequent associated party (grantee, host manufacturer, original equipment manufacturer (OEM), integrator, or end-user) can clearly understand the conditions and limitations for authorized uses of the modular transmitter. These instructions must be included as one of the Form 731 exhibits. While modules can provide great flexibility for third parties without requiring additional compliance demonstrations for the transmitter function, additional technical requirements may call for separate equipment authorization information for compliance demonstration (e.g., for RF exposure compliance and hearing-aid compatibility, for devices with specific antennas, or specific host/enclosure configurations)

Please complete the following template and replace the examples with respective realization details and refer to the supporting document.

The letter will be part of the Form731 application and therefore published on FCC's database.

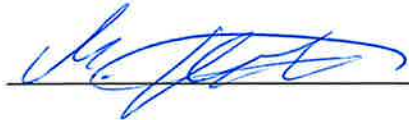
Modular Approval Request Letter

Date: 2025-09-02
FCC ID: 2AQQU-EZG0201H
Type of Equipment: Railworker warning system

Herewith we state that the requirements according to FCC Part 15.212 are met and the module qualifies for a single modular transmitter approval.

#	Requirement as per 47 CFR Part 15 Subpart C §15.212	Conditions met? (Y/N)	Realisation / Evidence in FORM 731 application filing
i	RF shielding 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.	Yes	<i>Transceiver is in metal housing</i>
ii	Buffered modulation/data inputs 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.	No	<i>The host will include data and modulation buffering. Module is exclusively developed for Schweizer Electronic AG. SEAG is responsible for both the module and the host devices.</i>
iii	Power supply regulation The modular transmitter must have its own power supply regulation.	Yes	<i>The function has been integrated in transceiver</i>
iv	Antenna requirements 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). Additional justification and details may be requested – please refer to KDB 996369	Yes	<i>The same antenna is used across the MinimeL system devices. It is attached through means of a unique coupling. Two sizes of Antennas of the same type are available. Depending on the assigned radio frequency, one or the other will be supplied.</i>
v	Stand-alone test configuration 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)).	No	<i>Worst case host was fully tested – all other hosts have been spot checked and results reported with this application. Devices have been tested for spurious emissions to ensure compliance.</i>
vi	Labelling The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Yes	<i>Devices will be equipped with permanently affixed labels accordingly.</i>
vii	Compliance on specific rule or operating requirements 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	RF Exposure Radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§1.1307(b), 1.1310, 2.1091, and	Yes	

	2.1093 of this chapter, as appropriate. Applications for equipment authorization of modular transmitters under this section must contain a statement confirming compliance with these requirements. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.		
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Michael Steffens
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Schweizer electronic AG