

Applica	nt/Grantee	Leviton Manu	ufacturin	g Co I	inc	
FCC ID	:	2ASLN-ZL07	70			
		Sect	tion 15.21	12 Mod	dular Transmitters	
Request for Modular Approval				est for Limited Modular Approval		
					EUT Conditions	Comply (Y/N)
		Singl	e Modula	ar App	roval Requirements	
1	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.				The device does not meet this requirement – limited modular approval is requested.	No
2	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 overmodulation.				The module is tested for LE Bluetooth 5.x & ZigBee protocol and all the TX-RX modulation schemes were found in compliance.	Yes
3	The modular transmitter must have its own power supply regulation.				The module integrates on-board linear regulator and radio circuit power supplies to maintain power supply requirements.	Yes
4	The modular transmitter must comply with the antenna and transmission system requirements of Sections 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 Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.				The module includes an internal chip antenna or an external wire antenna based on the variant with set of antenna tuning values to maintain compliance for different host devices.	Yes
5	stand-alone comust not be intesting for conrequirements. will be battery the AC line of Section 15.20 data input/out module must will be marke 15.27(a)). The the length typlength is unkninsure that the case of the machine and accessor equipment contesting shall be	transmitter must configuration, <i>i.e.</i> , aside another devenpliance with Pa Unless the transity powered, it must conducted required To AC or DC power put lines connect not contain ferritated with the mode elength of these pical of actual used nown, at least 10 ere is no coupling codule and supporties, peripherals, connected to the mode unmodified and Section 15.31(i)	the modurice during art 15 mitter modured st comply ments four wer lines at ted to the es, unless fulle (see Solines shall for, if that centimeter g between ting equipor support odule during d commercial statements.	dule with and in and they ection be trs to the ment.	As the device has no shield limited modular applies and requires testing of the device in a representative host system. Testing has been performed on the module in two different host devices to represent all-different hosts – refer to additional details at the end of this document.	No



6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. (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 module has a label affixed. Please see the label exhibit for the label module and end-product label.	Yes
7	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.	The module is compliant with all applicable FCC rules. Detailed instructions for remaining compliance are given in the User Manual (datasheet).	Yes
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The module complies with RF exposure requirement. The module's application is intended to be used in wall mount products maintaining >20 cm distance from the user.	Yes

Dmitriy Moskovkin Manager Codes Standards & Compliance



RF exposure is addressed in the RF exposure exhibition.

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.



Host Device Considerations:

As this module has no shield it is subject to limited modular approval with approvals limited only to the host device, and substantially equivalent hosts, in which it was tested for compliance with radiated spurious emissions requirements.

The module is designed for use in Leviton's ceiling-mount products and there are currently twelve different models of sensors that will use this module. Testing was performed on the module installed in units which we consider representing all different models.

The RF module itself consists of the RF circuitry and logic circuitry with some slightly different stuffing options on the logic circuitry. These changes do not affect the RF circuitry and are within the scope of a Permissive Change. In addition, based on the variant the RF circuitry consists of an internal chip antenna or external wire antenna with a set of antenna matching circuitry which is used to best match antenna and RF output based on the power board portion of the host switch. Full details are provided in the Operational Description exhibit.

The end-product assembly (host) can support switch functions, flash, dimming functions or DALI communication. The different options for each of the twelve-host end-product assemblies are described below.

The host versions tested are ZL070-B00, ZL070-B0A, ZL070-B20, ZL070-B2A, ZL0D0-B00, ZL0D0-B0A, ZLD70-B00, ZLD70-B0A, ZLD70-B20, ZLD70-B2A, ZLDD0-B00, ZLDD0-B0A.

LIMITED MODULAR APPROVAL FOR LOGIC BOARD										
	ISED ID#	Serial#	Leviton Part#	Configuration		Logic PCB				
FCC ID#				Power/ Dimming Technology	Sensor	PCB	Antenna Tuning	Assembly Variant	Assembly Difference	Voltage
	25037-ZL070	1	ZL070-B00	AUX 0-10V	No	B9285	Tuning #1	D01		12- 24 VDC
		2	ZL070-B0A		No		Tuning #2	D11	D01 for ext ant config	
		3	ZL070-B20		No		Tuning #1	D02	D01 with 2 CH 0-10V config	
2ASLN-ZL070		4	ZL070-B2A		No		Tuning #2	D12	D02 for ext ant config	
		5	ZLODO-BOO	DALI	No		Tuning #1	D03	D01 with DALI config	DALI
		6	ZLODO-BOA		No		Tuning #2	D13	D03 for ext ant config	
	25037-ZL070	7	ZLD70-B00	AUX 0-10V	No		Tuning #1	D21	D01 with BLE config	12- 24 VDC
		8	ZLD70-B0A		No		Tuning #2	D31	D21 for ext ant config	
2ASLN-71070		9	ZLD70-B20		No		Tuning #1	D22	D21 with 2 CH 0-10V config	
ZASLIV-ZLU/U		10	ZLD70-B2A		No		Tuning #2	D32	D22 for ext ant config	
		11	ZLDD0-B00	DALI	No		Tuning #1	D23	D21 with DALI config	
		12	ZLDD0-B0A		No		Tuning #2	D33	D23 for ext ant config	

Sincerely,

DmitozMostvakin

Dmitriy Moskovkin