

Applica	nt/Grantee	Leviton Man	ufacturin	g Co I	nc			
FCC ID		2ASLN-IDZ0		U				
Section 15.212 Modular Transmitters								
Request for Modular Approval Requ				est for Limited Modular Approval				
Requirements				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 5.0 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 integral chip antenna. There are two sets of antenna tuning values to maintain compliance for different host devices.	Yes		
5	stand-alone comust not be in testing for conrequirements. will be battery the AC line consection 15.20 data input/out module must will be marke 15.27(a)). The the length typ length is unknown insure that the case of the machine and accessoring equipment contesting shall be interested.	transmitter must onfiguration, <i>i.e.</i> , aside another development of the trans of powered, it must onducted require. The contain ferritated with the mode elength of these ical of actual user is no coupling odule and supported the tender of the mode elength of these ical of actual user is no coupling odule and supported the mode elength of the mode elength of these ical of actual user is no coupling odule and supported the mode elength of the m	the modulice during rt 15 mitter module st comply ments four wer lines at ted to the es, unless tule (see Solines shall to or, if that centimeter is between the ting equipor support odule during dommerce during commerce during equiport support odule during dommerce during equiport support odule during during equiport support odule during during equiport support odule during equiport support suppor	dule with and in they ection be rs 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 three different host devices to represent a total of ten different hosts – refer to additional details at the end of this document.	N/A		



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 MoskovkinManager 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 wall-mount products and there are currently ten different models of light switch that will use this module. Testing was performed on the module installed in three different wall switch units which we consider to represent the ten 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, the RF circuitry has two versions of antenna matching circuitry which are 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 dimming or switch-only functions, a voice sensor, PIR sensor (supported on all models). There different options for each of the ten host end-product assemblies are described below. The three hosts tested represent the most configured configurations (both PIR and voice sensors installed), three types of Power supply assembly and both switch-only and switch+dimmer functions.

The three versions tested are ODD10-MD, ODS15-MD and ODD24-MD.

	ISED ID#	Leviton Part#	Configuration			Logic PCB			Power PCB			
FCC ID#			PIR/	Switch /		Antenna	Assembly	Assembly		Assembly	Assembly	
			PIR + Microphone	Dimmer	PCB	Tuning	Variant	Difference	PCB	Variant	Difference	Voltage
	25037-IDZ01	ODD10-ID	PIR	Dimmer		Tuning #1		D11 without	B1674	D31		120- 277VAC
							D01	Microphone & its				
								components				
		ODS15-ID	PIR	Switch		Tuning #2		D12 without	B1677	D31		
							D02	Microphone & its				
								components				
		ODD24-ID	PIR	Dimmer		Tuning #1	D05	D14 without	B7707	D01		
								Microphone & its				
								components				24VDC
		ODS24-ID	PIR	Switch		Tuning #1	D04	D15 without			D01 without	24VDC
								Microphone & its		D02	Dimming circuit	
								components			components	
		ODD10-MD	PIR + Microphone	Dimmer		Tuning #1	D11		B1674	4 D31]
2ASI N-ID701		ODS15-MD PIR + Micropho		Switch	B8200	Tuning #2		D11 without	B1677			24VDC
ZAJLIN-IDZOI			PIR + Microphone					Dimming switch &		D31		
								LED components				
		ODD24-MD	PIR + Microphone	Dimmer		Tuning #1	D15	D11 without relay	B7707	D01		
								driver circuit				
		ODS24-MD PI	PIR + Microphone	Switch		Tuning #1	D14	D11 without relay			D01 without Dimming circuit components	
								driver and				
								Dimming switch &				
								LED components				
		ODS15-I1 PIR						D12 without				l
			Switch		Tuning #2	D02	Microphone & its	B1677	D31		120VAC	
								components				igsquare
		ODD10-I1				Tuning #1		D11 without	B1674	D31		120VAC
			PIR	Dimmer				Microphone & its				
								components				

Sincerely,

Dmitry Moskovkin

Leviton Manufacturing Co., Inc. 20497 SW Teton Ave. Tualatin, OR 97062