

Applicant/Grantee		Leviton Manufacturing Co Inc								
FCC ID:		2ASLN-C3648								
Section 15.212 Modular Transmitters										
Request	for Modular	Approval 🗌	est for Limited Modular Approval	X						
		Requirements		EUT Conditions	Comply (Y/N)					
		Single Modula	r App	roval Requirements						
1	The radio eler must have the crystal and tur external to the	ments of the modular transn ir own shielding. The physi ning capacitors may be loca e shielded radio elements.	nitter ical nted	The device does not have a shield, hence does not meet this requirement. The module cannot be tested standalone and has to be tested with the module installed in a representative host device – limited modular approval is requested	No					
2	The modular t modulation/da provided) to e comply with I conditions of modulation.	transmitter must have buffe ata inputs (if such inputs are ensure that the module will Part 15 requirements under excessive data rates or over	red	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 to power supply	transmitter must have its ov regulation.	vn	The module integrates on-board linear regulator and radio circuit power supplies to maintain power supply requirements.	Yes					
4	The modular ta antenna and tr of Sections 15 The antenna m attached or en coupler (at all module and th The "profession Section 15.20 but can apply under paragra	transmitter must comply wi ransmission system requirer 5.203, 15.204(b) and 15.204 nust either be permanently nploy a "unique" antenna connections between the ne antenna, including the ca onal installation" provision 3 is not applicable to modu to limited modular approva ph (b) of this section.	th the ments (c). ble). of les uls	The module includes an internal PCB antenna on the variant with set of antenna tuning values to maintain compliance for different host devices.	Yes					
5	The modular t stand-alone co must not be in testing for cor requirements. will be battery the AC line co Section 15.20 data input/out module must will be marke 15.27(a)). The the length typ length is unkn insure that the case of the mod Any accessorie	transmitter must be tested in onfiguration, <i>i.e.</i> , the modul nside another device during mpliance with Part 15 Unless the transmitter mod y powered, it must comply y onducted requirements foun 7. AC or DC power lines an put lines connected to the not contain ferrites, unless to ted with the module (see See e length of these lines shall ical of actual use or, if that nown, at least 10 centimeter ere is no coupling between to odule and supporting equipn ies, peripherals, or support nnected to the module during	n a le lule with nd they ection be s to he ment.	As the device has no shield and cannot be tested standalone, 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.	Νο					



	testing shall be sume dified and some avaially		
	available (see Section 15 31(i))		
6	The moduler transmitter must be equipped	The module has a label offixed Places see	Voc
0	with aither a norman antly offined label or	the lobal ashibit for the lobal module and	1 05
	with either a permanently affixed fabel of		
	must be capable of electronically displaying	end-product label.	
	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:		
	XYZMODELI." 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		
	instructions must be included in the application for		
	instructions must be included in the application for		
	(R) If the modular transmitter uses an electronic		
	display of the ECC 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.		
7	The modular transmitter must comply with	The module is compliant with all	Yes
	any specific rules or operating requirements	applicable FCC rules. Detailed instructions	
	that	for remaining compliance are given in the	
	ordinarily apply to a complete transmitter and	User Manual (datasheet)	
	the manufacturer must provide adequate	eser manual (datasheet).	
	instructions along with the module to evaluin		
	any such requirements. A convert these		
	any such requirements. A copy of these		
	Instructions must be included in the		
	application for equipment authorization.		*7
8	The modular transmitter must comply with	The module complies with RF exposure	Yes
	any applicable RF exposure requirements in	requirement. The module's application is	
	its final configuration.	intended to be used in wall mount products	



	maintaining >20 cm distance from the user.						
		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, <i>e.g.</i> , 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 & ceiling-mount products and there are currently fourteen different models of hosts 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 PCB 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. The different options for each of the fourteen-host end-product assemblies are described below.

The host versions tested are – Zigbee + BLE: ZB700-D0z, ZB700-30z, ZK700-D0z, ZBS00-D0z, ZKS00-D0z, ZBM00-10z, ZKM00-10z BLE only: SB700-D0z, SB700-30z, SK700-D0z, SBS00-D0z, SKS00-D0z, SBM00-10z, SKM00-10z.



	LIMITED MODULAR CERTIFICATION APPLIED TO RADIO / LOGIC PCB# C3648 ONLY													
		Product ID			Comparison Information									
						Configuration Radio / Logic PCB						Power PCB & Assembly#	Mobile Application	
FCC ID#:	ISED ID#: 9	Serial#	Host HVIN	Product Marketing Name	Radio	Voltage	Dimming	Switch	PCB#	Assembly Variant#	Antenna Tuning#	Assembly Difference		
			Model# / Cat#	Description										
		Zigbee + BLE												
Contains FCC ID: 2ASLN- 2. C3648 C		1	ZB700-D0z	Lumina RF 0-10V Wall Dimmer, 120-277VAC		120-277VAC		Yes, 0-10V Switch & Dimmer	C3648	D01	Tuning #1		B1674 var 01	Leviton's mobile app
	Contains	2	ZB700-30z	Lumina RF 0-10V Wall Dimmer, 347VAC		347VAC	Yes, 0-10V			D01	Tuning #1		B1674 var 02	
		3	ZK700-D0z	Lumina RF 10A 0-10V Dimming Power Pack, 120-277VAC		120-277VAC				D21	Tuning #3	D01 with ceiling mount config	B7707 var 01	
		4	ZBS00-D0z	Lumina RF Decora Wall Switch, 120-277VAC		120-277VAC	NO	Switch		D02	Tuning #2	D01 with NO dimming config	B1677 var 01	
	IC: 25037- C3648	5	ZKS00-D0z	Lumina RF 20A ON/OFF Switching Power Pack, 120-277VAC	Zigbee & BLE					D22	Tuning #4	D01 with ceiling mount config & no dimming	B1677 var 21	
		6	ZBM00-10z	Lumina RF 1000W Traditional Dimmer, 120VAC		120VAC	Yes, Phase Cut	Switch & Dimmer		D07	Tuning #2	D01 with phase cut control config	A9800 var 03	
		7	ZKM00-10z	Lumina RF Phase Cut Dimmer, Nipple Mount, 120VAC						D23	Tuning #5	D01 with ceiling mount config and phase control config	A9800 var 02	
			BLE Only											
	Contains	8	SB700-D0z	Lumina RF 0-10V Wall Dimmer, 120-277VAC, BLE only		120-277VAC	AC Yes, 0-10V	V Switch & Dimmer		D31	Tuning #1	D01 with BLE only config	B1674 var 01	Leviton's mobile app
		9	SB700-30z	Lumina RF 0-10V Wall Dimmer, 347VAC, BLE only		347VAC				D31	Tuning #1	D01 with BLE only config	B1674 var 02	
		10	SK700-D0z	Lumina RF 10A 0-10V Dimming Power Pack, 120-277VAC, BLE only		120-277VAC	2			D51	Tuning #3	D31 with ceiling mount config	B7707 var 01	
Contains		11	SBS00-D0z	Lumina RF Decora Wall Switch, 120-277VAC, BLE only				Switch		D32	Tuning #2	D31 with NO dimming config	B1677 var 01	
FCC ID: IC: 2ASLN- 25037 C3648 C364	IC: 25037- C3648	12	SKS00-D0z	Lumina RF 20A ON/OFF Switching Power Pack, 120-277VAC, BLE onl	BLE Y	120-277VAC	NO		C3648	D52	Tuning #4	D31 with ceiling mount config & no dimming	B1677 var 21	
		13	SBM00-10z	Lumina RF 1000W Traditional Dimmer, 120VAC, BLE only		120\/AC	Yes, Phase	Switch &		D37	Tuning #2	D31 with phase cut control config	A9800 var 03	
		14	SKM00-10z	Lumina RF Phase Cut Dimmer, Nipple Mount, 120VAC, BLE only		120070	Cut	Dimmer		D53	Tuning #5	D31 with ceiling mount config and phase control config	A9800 var 02	



Sincerely,

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