



January 10, 2022

Subject: Cover Letter for FCC Application

Applicant: Leviton Manufacturing Co., Inc.
FCC Certification Number: 2ASLN-ZL070
Product Description: MSC Inline Logic Board B9285

To Whom it May Concern:

This letter is to request certification for our device, **2ASLN-ZL070**, to the following certification service:

- New Limited Modular

Please grant FCC certification for this limited modular MSC Inline Logic Board B9285 – being used in total of twelve (12) end-products as described below, more to be added later. This module utilizes the 2.4GHz Bluetooth low-energy 5.x and ZigBee protocols – only one transmitting at a time. All end-products share same module B9285 as logic board with different assembly variants and different power boards to support functions as required in end-product.

This limited modular certified module integrates all components (Crystals, RF passives and Chip Antenna) required for a system-level implementation of Bluetooth & ZigBee networks except the RF shield. The module PCB will act as a logic board and configured from the firmware for 2.4 GHz ZigBee mesh network and 2.4 GHz BLE 5.x radio for communication with mobile phones.

The assembly variants of the logic board have minor assembly changes to support functions as required in end-product. All variant changes are described in table below also.

- The PCB is same for all variants.
- Radio section is same for all variants with changes in antenna tuning values (Tuning #1 for internal antenna variants & tuning #2 placed on interposer PCB for external antenna variants) to be in radio compliance.
- The SoC used on two set of end-products is different that ZLD70-Bxx & ZLDD0-Bxx models [serial# 7-12 in table below] have some proprietary protocol features disabled that ZL070-Bxx & ZL0D0-Bxx models [serial# 1-6 in table below] supports those. They are equal from the Bluetooth point of view.
- The other assembly changes are based on functions required or not like power supply, dimming, HWID, external flash & its components can be following in two ways:
 - o uses an AUX DC voltage input and one or two 0-10V dimming channels depending on the variants.
 - o uses DALI for power supply, dimming & control functions.

Firmware supports remote control via smart phones using the Leviton Intellect/ DRC application on Android or iOS.

Preliminary testing on all variations of the module demonstrated that the RF specifications and performance are similar across all models and can be considered for a limited-modular approval under a single FCC ID.

The table below shows the features for each model.



LIMITED MODULAR APPROVAL FOR LOGIC BOARD									
FCC ID#	Serial #	Leviton Part #	Configuration		Logic PCB				Voltage
			Power/ Dimming Technology	Sensor	PCB	Antenna Tuning	Assembly Variant	Assembly Difference	
2ASLN-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	
	4	ZL070-B2A		No		Tuning #2	D12	D02 for ext ant config	
	5	ZL0D0-B00	DALI	No		Tuning #1	D03	D01 with DALI config	DALI
	6	ZL0D0-B0A		No		Tuning #2	D13	D03 for ext ant config	
2ASLN-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	
	9	ZLD70-B20		No		Tuning #1	D22	D21 with 2 CH 0-10V config	
	10	ZLD70-B2A		No		Tuning #2	D32	D22 for ext ant config	
	11	ZLDD0-B00	DALI	No		Tuning #1	D23	D21 with DALI config	DALI
	12	ZLDD0-B0A		No		Tuning #2	D33	D23 for ext ant config	

If you have any questions regarding this request for certification, please feel free to contact me.

Sincerely,

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