



June 28, 2021

Subject: Cover Letter for FCC Application

Applicant: Leviton Manufacturing Co., Inc.
FCC Certification Number: 2ASLN-ZLD1Z
Product Description: FMS Logic Board B8789

To Whom it May Concern:

This letter is to request certification for our device, **2ASLN-ZLD1Z**, to the following certification service:

- New Limited Modular

Please grant FCC certification for this limited modular Wall Station Controller logic board B8789 – being used in total of two (2) end-products as described below, more to be added later. This module utilizes the 2.4GHz Bluetooth low-energy 5.0 protocol. All end-products share same module B8789 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 networks except the RF shield. The module PCB will act as a logic board and configured from the firmware for 2.4 GHz BLE 5.0 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) to be in radio compliance.
- The SoC used on two end-products is different that EFR32BG21 model has some proprietary protocol features disabled that EFR32MG21 supports those. They are equal from the Bluetooth point of view.
- The other assembly changes are based on functions required or not like RTC, HWID, external flash & its components.

This limited-modular certified module is paired with one power board for the end-product. The power board used is described in table below also.

- The power board B8682 has a multirange input voltage 120-277 VAC and support 15A relay switch and 0-10V dimming functions.

Firmware supports remote control via smart phones using the Leviton Smart Sensor 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.



FCC ID#	Serial #	Leviton Part #	Configuration		Logic PCB				Power PCB			
			RTC/ No RTC	Switch / Dimmer	PCB	Antenna Tuning	Assembly Variant	Assembly Difference	PCB	Assembly Variant	Assembly Difference	Voltage
2ASLN-ZLD1Z	1	ZLD1Z-I0	No RTC	Dimmer	B8789	Tuning #1	D01	--	B8682	D01	--	120-277VAC
2ASLN-ZLD1Z	2	ZLD1Z-ID	No RTC	Dimmer	B8789	Tuning #1	D11	D01 with EFR32MG21 SoC	B8682	D01	--	120-277VAC

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

Sincerely,

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