

March 19, 2020

Cover Letter for FCC Application

Please grant FCC certification for the Room Controller Wall Station family as described below. These 8 products utilize the 2.4GHz Zigbee protocol to work with other Zigbee products networked to the wall station and 2.4GHz Bluetooth protocol to communicate with mobile devices. All models share same power PCB B0968 and logic PCB B0969 with different assembly variants to support functions as required.

Each wall station utilizes a 2.4 GHz Zigbee and 2.4 GHz Bluetooth radio both of which are integrated into the logic board B0968. Assembly differences of B0968 are as below:

- There is no difference in radio MCUs or components or antenna tuning values in all variants.
- Variant D04 contains firmware set#1, have 8 buttons outside and 8 LEDs.
- Variant D14 is same as variant D04 but contains firmware set #2.
- Variant D03 contains firmware set#1, have 4 buttons outside and 4 LEDs.
- Variant D13 is same as variant D03 but contains firmware set #2.
- Variant D02 contains firmware set#1, have 2 buttons outside and 2 LEDs.
- Variant D12 is same as variant D02 but contains firmware set #2.
- Variant D01 contains firmware set#1, have 1 button outside and 1 LED.
- Variant D11 is same as variant D01 but contains firmware set #2.

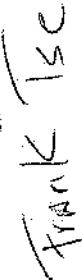
The power board B0969 for each wall station is same for all the variants. Variant D01 supports 120-277VAC.

Preliminary testing on all variations of power and logic boards demonstrated that the RF specifications and performance are similar across all models and can be considered for a family approval under a single FCC ID for FCC.

The table below shows the features for each model.

Product ID			Configuration		Radio/ Logic PCB			Power PCB				Mobile Application
FCC ID#	Model# / Cat#	Description	Radios	Switch	PCB	Variant	Assembly Difference	Power PCB	Variant	Input Voltage	Loads	
QGH-DLDNK	DLDNK-08W	Lumina RF Room Controller 8-Button	2.4GHz Zigbee & BLE	8	B0968	D04	with firmware set# 1	B0969	D01	120-277VAC	--	Lumina RF SA
	ZLDNK-08W	Intellect Room Controller 8-Button		8		D14	D04 with firmware set# 2					Intellect
	DLDNK-04W	Lumina RF Room Controller 4-Button		4		D03	D04 with firmware set# 1 and less button & LED support					Lumina RF SA
	ZLDNK-04W	Intellect Room Controller 4-Button		4		D13	D04 with firmware set# 2 and less button & LED support					Intellect
	DLDNK-02W	Lumina RF Room Controller 2-Button		2		D02	D04 with firmware set# 1 and less button & LED support					Lumina RF SA
	ZLDNK-02W	Intellect Room Controller 2-Button		2		D12	D04 with firmware set# 2 and less button & LED support					Intellect
	DLDNK-01W	Lumina RF Room Controller 1-Button		1		D01	D04 with firmware set# 1 and less button & LED support					Lumina RF SA
	ZLDNK-01W	Intellect Room Controller 1-Button		1		D11	D04 with firmware set# 2 and less button & LED support					Intellect

Sincerely,



Frank Tse