

SUBJECT: LG Electronics USA
FCC ID : ZNFD605

Channel plan and software operational info

*** Question1.**

Submit a channel/frequency plan for this device showing the channels that have active scanning or passive scanning. Active scanning is where the device can transmit a probe (beacon) and passive scanning is where the device can listen only with no probes.

1. Active scan on: 2412~2462MHz, 5180~5240MHz(Non DFS frequency), 5745~5825MHz

- 1) Channels 1~11 (2412~2462MHz) 802.b/g/n (Not support 40MHz Channel)
- 2) Channel 36~48 (5180~5240MHz) 802.11 a/n (Support 40MHz Channel)
- 3) Channel 149~165 (5745~5825MHz) 802.11 a/n (Support 40MHz Channel)

2. Passive scan on: 5260~5320MHz(On DFS frequency), 5500~5700MHz(On DFS frequency)

- 1) Channel 52~64 (5260~5320MHz) 802.11 a/n (Support 40MHz Channel)
- 2) Channel 100~140 (5500~5700MHz) 802.11 a/n (Support 40MHz Channel)
- But Channel 120,124,128 (5600~5640MHz) for 20M BW and
Channel 118, 126, 142 (5590, 5630, 5710MHz) for 40M BW are not support.

*Detail Table

***2.4GHz Band WLAN**

freq.	Ch.No	BW	Active scan	Passive Scan	Client Only	DFS	Radar Detection	IEEE 802.11
2412	1	20MHz BW Only	Yes	No	No	No	No	Support 802.11 b/g/n
2417	2							
2422	3							
2427	4							
2432	5							
2437	6							
2442	7							
2447	8							
2452	9							
2457	10							
2462	11							

***5G Band WLAN**

freq.	Ch.No	BW	Active Scan	Passive Scan	Client Only	DFS	Radar Detection	IEEE 802.11
5180	36	20MHz BW Only	Yes	No	Yes	No	No	Support 802.11 a/n
5200	40							
5220	44							
5240	48		No	Yes	Yes	Yes	No	
5260	52							
5280	56							
5300	60							
5320	64							
5500	100							
5520	104		Not Support	Not Support	Not Support	Not Support	Not Support	
5540	108							
5560	112							
5580	116		No	Yes	Yes	Yes	No	
5600	120							
5620	124							
5640	128							
5660	132							
5680	136							
5700	140	Yes	No	Yes	No	No		
5745	149							
5765	153							
5785	157							
5805	161							
5825	165							

***5G (HT40) Band WLAN**

freq.	Ch.No	BW	Active Scan	Passive Scan	Client Only	DFS	Radar Detection	IEEE 802.11					
5190	38	40MHz BW Only	Yes	No	No	No	No	Support 802.11n					
5230	46												
5270	54	40MHz BW Only	No	Yes	Yes	Yes	No						
5310	62												
5510	102	40MHz BW Only	No	Yes	Yes	Yes	No						
5550	110												
5590	118								Not Support				
5630	126								Not Support				
5670	134								No	Yes	Yes	Yes	No
5710	142								Not Support				
5755	151	40MHz BW Only	Yes	No	No	No	No						
5795	159												

*** Question 2**

Verify that this device does not have ad-hoc mode.

☞ Yes, This device does not support ad-hoc mode on DFS frequencies.

*** Question 3**

Verify that this application contains a complete User's Manual and/or Professional Installers Manual. If the manual is not complete, upload an updated User's Manual exhibit.

☞ Please see attached user manual.

*** Question 4**

Can this device act as an access point on the non DFS legacy frequencies(5.15~5.25GHz)

☞ No, This device does not act as an access point at 5G band.

*** Question 5**

Verify that this device meets the frequency requirements of Section 15.202

☞ Yes, Please refer answer of Question 1.

*** Question 6**

For client devices that have software configuration control to operate in different modes(active scanning in some and passive scanning in others) indifferent bands(devices with multiple equipment classes or those that operate on non DFS frequencies)or modular devices which configure the modes of operations through software, the application must provide software and operations description on how the software and/or hardware is implemented to ensure that proper operations modes cannot be modified by end user or an installer.

☞ On DFS channels, the WLAN subsystem operates under the control of an AP at all times. The client software and associated drivers will not initiate any transmission on DFS frequencies without initiation by a master. This includes restriction on transmissions for beacons and support for ad-hoc and peer-to-peer modes.

This device software is set in non-volatile memory.

Only LG engineer can access this SW because this SW is cryptographic code that only access through a password. Therefore this device will not allow the user settings to select any non-US frequency and will not be accessible and cannot be changed by the end user or by host configuration setting.