FCC ID: XU8TEW814DAP

Operational Description

The device is a dual band wireless Access Point which operates at 2.4 and 5GHz band and supports IEEE 802.11 a / b / g / n / ac transmission modes. 80+80 MHz mode is not supported. This device is not capable of transmitting simultaneously in more than one Part 15 band between 5 and 6 GHz and therefore not subject to the PBA as defined in KDB 644545.

RF main chip	RTL8197
Frequency range (MHz)	2412~2462 / 5180~5240 / 5745~5825
Modulation type	DBPSK, DQPSK, CCK BPSK, QPSK, 16QAM, 64QAM,256QAM
Oscillating frequency (MHz)	40
Antenna type	PCB antenna , 2dBi gain

Channel frequency

Mode	Channel	Frequency(MHz)
11b 11g HT20	1	2412
	2	2417
	3	2422
	4	2427
	5	2432
	6	2437
	7	2442
	8	2447
	9	2452
	10	2457
	11	2462
HT40	3	2422
	4	2427
	5	2432
	6	2437
	7	2442
	8	2447
	9	2452

Mode	Channel	Frequency(MHz)
11a HT20 VHT20	36	5180
	40	5200
	44	5220
	48	5240
	149	5745
	153	5765
	157	5785
	161	5805
	165	5825
HT40 VHT40	38	5190
	46	5230
	151	5755
	159	5795
VHT80	42	5210
	155	5775

Data transmission is always initiated by software, which is then pass down through the MAC , through the digital and analog baseband, and finally to the RF chip. Several special packets (ACKs, CTS , PSPoll, etc) are initiated by the MAC. There are the only ways the digital baseband portion will turn on the RF transmitter, which it the turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets are being transmitted.