

## Operational Description

The device is a wireless Access Point which operates at 5GHz band and supports IEEE 802.11 a / 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                      RTL8881  
 Frequency range (MHz)        5180~5240 / 5745~5825  
 Modulation type                 BPSK, QPSK, 16QAM, 64QAM,256QAM  
 Oscillating frequency (MHz) 40  
 Antenna type                    PCB antenna , 3 dBi gain  
 Channel frequency

Mode	Channel	Frequency(MHz)
	36	5180
	40	5200
	44	5220
11a	48	5240
HT20	149	5745
VHT20	153	5765
	157	5785
	161	5805
	165	5825
<hr/>		
	38	5190
HT40	46	5230
VHT40	151	5755
	159	5795
<hr/>		
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.