



Operational Description

FCC ID: WBV-HIVEAP170

This device is a wireless Access Point, which operates in both of the 5GHz and 2.4GHz bands; the maximum data rate could be 300Mbps using OFDM (Orthogonal Frequency Division Multiplexing) technique. If the signal to noise ratio is too poor which could not support 300 Mbps, the 11Mbps data rate with DSSS (Direct Sequence Spread Spectrum) technique will be applied.

The device provides concurrent 2.4GHz and 5GHz) 802.11n (2x2) MIMO as well as a 10/100/1000 Ethernet port.

The transmitter of the EUT is powered by 48VDC PoE or 12VDC adapter.

The antenna is a dipole antenna with N-Type antenna connector.

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