



## Operational Description

This device is a Notebook which its wireless module is a Wireless LAN (Wi-Fi) and Bluetooth (BT) combination dual chip solution supporting both 2.4GHz and 5GHz bands. In 2.4GHz bands is for WLAN and Bluetooth usage and in 5GHz bands is only for WLAN usage. The maximum data rate could be operated on a 40MHz wide channel, reaching PHY rates of up to 300Mbps (MIMO 2T2R). The modulation type of 11b is using CCK method and 11a/ 11g/ 11n are using OFDM method. In addition, wireless module also supports Bluetooth 4.0 standard (which includes BLE and Bluetooth 3.0+HS).

The transmitter of the EUT is powered by the 19Vdc from Adapter. The antenna is listing as below

For WLAN function:

No.	Brand	Model	Type		Connector	Gain(dBi)	
						2.4GHz Band	5.0GHz Band
Ant 0	ACON	APP6P-700769	Main	PIFA	I-PEX&Hirose	1.01	1.27
			Aux.	PIFA	I-PEX&Hirose	1.53	2.28
Ant 1	INPAQ	WA-F-LBLB-04-005	Main	PIFA	I-PEX &MHF	1.02	0.39
			Aux.	PIFA	I-PEX &MHF	1.30	1.06

For Bluetooth function:

No.	Brand	Model	Type	Connector	Gain(dBi)
Ant 0	ACON	APP6P-700769	PIFA	I-PEX&Hirose	1.53
Ant 1	INPAQ	WA-F-LBLB-04-005	PIFA	I-PEX &MHF	1.30

The other instruction, please take a look at the user's manual.

FCC 15.407(C) states; the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met"

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 will be on only while

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one of the aforementioned packets are being transmitted.

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