OPERATIONAL DESCRIPTION

The EUT is "wifi module".

A major technical description of EUT is described as following

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	IEEE 802.11b:15.37dBm; IEEE 802.11g:14.64dBm; IEEE 802.11n(HT20):14.24dBm; IEEE 802.11n(HT40):14.87dBm
Output Power (Peak)	IEEE 802.11b:21.34dBm; IEEE 802.11g:20.64dBm; IEEE 802.11n(HT20):19.70dBm; IEEE 802.11n(HT40):19.52dBm
EIRP	23.33dBm (Max)
Modulation	802.11b:DQPSK, DBPSK, CCK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
Number of channels	11
Hardware Version	1.0
Software Version	1.0
Antenna Designation	Chip antenna (Comply with requirements of the FCC part 15.203 and RSS-GEN chapter 6.8)
Antenna Gain	1.99dBi
Power Supply	DC 5V by PC

After the product has been connected to DC 5V by PC, product will start to work through XTAL 40MHz (XTAL1) vibration. During transmitting, transceiver (U3:RTL8189ES) will output low-power signals, and then eradiate signals to the space through Antenna network.