

# Description of Operation

The EUT is a Almond 3S Wireless Router.

And this device provided of WIFI transmitting speed and Zigbee transmitting speed :

WIFI transmitting speed :

802.11a : 54, 48, 36, 24, 18, 12, 9, 6Mbps.

802.11b : 11, 5.5, 2, 1Mbps.

802.11g : 54, 48, 36, 24, 18, 12, 9, 6Mbps.

802.11n-HT20 : 130, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5Mbps.

802.11n-HT40 : 270, 243, 216, 162, 135, 121.5, 108, 81, 54, 40.5, 27, 13.5Mbps.

802.11ac-HT20 : 86.7, 72.2, 65, 57.8, 43.3, 28.9, 21.7, 14.4, 7.2 Mbps.

802.11ac-HT40 : 200, 180, 150, 135, 120, 90, 60, 45, 30, 15Mbps.

802.11ac-HT80 : 433.3, 390, 325, 292.5, 260, 195, 130, 97.5, 65, 32.5Mbps.

Zigbee transmitting speed :

802.15.4 : 250kb/s

The device of RF carrier is DSSS, CCK, DQPSK, DBPSK, 16QAM, 64QAM, 256QAM, QPSK and BPSK. The device adapts DSSS, OFDM and MCS modulation. And the antennas are PIFA Antennas. It has two transmitter chains and two receive chains (2x2 configurations). Then the device of Zigbee carrier is DSSS, and the antenna is PIFA Antenna.

It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. And this EUT operation in 2.4GHz and 5GHz, Direct Sequence Spread Spectrum (D.S.S.S), Orthogonal Frequency division Multiplex(O.F.D.M) and Modulation and coding scheme (M.C.S) radio transmission. In addition, its standard compliance ensures that it can communicate with any 802.11 a/b/g/n/ac. Then the Zigbee operation in 2.4GHz Direct Sequence Spread Spectrum (D.S.S.S).

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