

Theory of Operation/Technical Description – FCC ID: 2AAFM-20LAC9901
Product name: Ring Light, Model name: 20LAC9901.

- RF circuit function:

The product are based on the RTL872xD modules.

The major part of this IC is a Bluetooth dual mode and Wi-Fi mode compliant transceiver. The Bluetooth BT and Wi-Fi (40MHz) function of this product will be turned off using software. Will not be used by the final consumer.

This RF chip Wi-Fi 2.4GHz and WiFi 5GHz, do not support simultaneous transmission.

- Description of all modulation schemes used in the product:

Item	EUT information
Operating Frequency	2412 MHz ~ 2462 MHz
Channel Spacing	5 MHz
Channel number	802.11b/g/n HT20: 11 channels
Data Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM)

Item	EUT information
Operating Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 2: 5260 MHz ~ 5320 MHz Band 3: 5500 MHz ~ 5700 MHz Band 4: 5745 MHz ~ 5825 MHz
Channel Spacing	10 MHz
Channel number	Band 1: 4 for 802.11a, 802.11n HT20 Band 2: 4 for 802.11a, 802.11n HT20 Band 3: 11 for 802.11a, 802.11n HT20 Band 4: 5 for 802.11a, 802.11n HT20
Data Rate	802.11a: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
DFS Mode	Slave without radar detection

Rick Ho
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Signature:

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