

Realtek Semiconductor Corp.

No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

EU Declaration of Conformity (DoC)

Hereby we,

Name of manufacturer: Realtek Semiconductor Corp.
Address: No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan
Telephone number: 03-5780211#3835

declare that this DoC is issued under our sole responsibility and that this product:

Product description: 802.11a/b/g/n/ac RTL8822BE Combo module
Type designation(s): RTL8822BE
Trademark: REALTEK
Batch / Serial number: N/A

Object of the declaration (further identification of the radio equipment allowing traceability; it may include a color image for the identification of the radio equipment):



is in conformity with the relevant Union harmonization legislation:

Radio Equipment directive: **2014 / 53 / EU**

and other Union harmonization legislation where applicable: N/A

with reference to the following standards applied:

Spectrum : **EN 300 328 V2.1.1, EN 301 893 V2.1.1**

EMC : **EN 301 489-1 V2.2.0, EN 301 489-17 V3.2.0**

Healthy (EMF) : **EN 62311: 2008, EN 62479: 2010**

Safety (LVD) : **EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013**

Description of accessories and components, including software, which allow the radio equipment to operate as intended and covered by the DoC:

Software: N/A

Accessories:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	PSA	RFDPA171320EMLB301	Dipole Antenna	I-PEX	3.14	5
2	LYNwave	ALA110-222050-300011	PIFA Antenna	I-PEX	3.5	5
Beamforming Gain					3	

Europe Statement

IMPORTANT NOTE:

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

Radiation Exposure Statement:

This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

The frequency, mode and the maximum transmitted power in EU are listed below:

2412-2472MHz (802.11g 6 Mbps): 19.98dBm

2402-2480MHz (EDR 3Mbps): 9.65dBm

2402-2480MHz (LE 1Mbps): 9.80dBm

5180-5240/ 5260-5320/ 5500-5700MHz (802.11ac VHT40 MCS0/NSS1): 22.95dBm

Operation information:

WLAN

RF General Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b	2412-2472	1-13 [13]
2400-2483.5	g	2412-2472	1-13 [13]
2400-2483.5	n (HT20)	2412-2472	1-13 [13]
2400-2483.5	n (HT40)	2422-2462	3-11 [9]
2400-2483.5	ac (VHT20)	2412-2472	1-13 [13]
2400-2483.5	ac (VHT40)	2422-2462	3-11 [9]

Note 1: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 2: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
 Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

RF General Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5150-5250	n (HT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5150-5250	n (HT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5150-5250	ac (VHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5150-5250	ac (VHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]

Note 1: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
Note 2: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

Bluetooth

RF General Information			
Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Note 1: Bluetooth BR uses a GFSK (1Mbps).
Note 2: Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
Note 3: Bluetooth BR/EDR uses as a system using FHSS modulation.

RF General Information			
Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Note: Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.



Signature

Date: June 16, 2017