



Declaration letter operation mode

FCC ID: NCI-SOM-7000

For Bluetooth BLE

Item	EUT information
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	2 MHz
Channel Number	40
Data Rate	1Mbps
Operation Voltage	12Vdc
Modulation	GFSK
Maximum Output Power (W)	0.02793

For Bluetooth BT

Item	EUT information
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	1 MHz
Channel Number	79
Operation Voltage	12Vdc
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Maximum Output Power (W)	0.02831

For WiFi 2.4G

Item	EUT information	
Operating Frequency	2412 MHz ~ 2462 MHz	
Channel Spacing	5 MHz	
Channel Number	802.11b/g/ac HT20: 11 802.11ac VHT40: 7	
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	
Operation Voltage	12Vdc	
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) OFDMA (1024QAM)	
Maximum Output Power (W)	802.11b	0.083
	802.11g	0.021
	802.11n HT20	0.015
	802.11n HT40	0.008
	802.11n VHT20	0.015
	802.11n VHT40	0.009
	802.11ax HE20	0.015
	802.11ax HE40	0.009



For WiFi 5G

Item	EUT information
Operating Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 4: 5745 MHz ~ 5825 MHz
Channel Number	Band 1: 4 for 802.11a, 802.11n HT20, 802.11ac VHT20 2 for 802.11n HT40, 802.11ac VHT40 1 for 802.11ac VHT80 Band 4: 5 for 802.11a, 802.11n HT20, 802.11ac VHT20 2 for 802.11n HT40, 802.11ac VHT40 1 for 802.11ac VHT80
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 802.11ac: up to MCS9
Operation Voltage	12Vdc
Modulation	802.11a, 802.11n HT20, 802.11n HT40: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ac VHT20, 802.11ac VHT40, 802.11ac VHT80: OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM
Maximum Output Power (W)	5180 ~ 5240 MHz: 0.115 5745 ~ 5825 MHz: 0.121

WiFi 5G Channel Frequency

Band	Channel	Frequency (MHz)	802.11a 802.11n HT20 802.11ac VHT20 802.11ax HE20	802.11n HT40 802.11ac VHT40 802.11ax HE40	802.11ac VHT80 802.11ax HE80
U-N11-1 (BAND 1)	36	5180	√		
	38	5190		√	
	40	5200	√		
	42	5210			√
	44	5220	√		
	46	5230		√	
	48	5240	√		
U-N11-3 (BAND 4)	149	5745	√		
	151	5755		√	
	153	5765	√		
	155	5775			√
	157	5785	√		
	159	5795		√	
	161	5805	√		
165	5825	√			