

Operation description

The product name is 802.11a/b/g/n/ac/ax 1200Mbps WLAN + Bluetooth v5.2 Combo PCI-E Module. It is powered by DC 3.3V. It supports BT dual mode, 2.4G WIFI and 5G WIFI. The wireless functions are controlled by chip RTL8852 with 40MHz crystal oscillator.

EUT Name		802.11a/b/g/n/ac/ax 1200Mbps WLAN + Bluetooth v5.2 Combo PCI-E Module
Model		BL-M8852BP2
Series Model		/
Model Difference		/
Hardware Version		V1.1
Software Version		/
Ratings		DC 3.3V
Power Supply	AC	/
	DC	3.3V

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth V5.2
Bluetooth Mode:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Maximum Peak Power:	10.77 dBm
Antenna Type:	FPC antenna
Antenna Gain:	2 dBi
Normal Test Voltage:	3.3 Vdc
EUT Test software:	Bluetooth RF Test Tool
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth V5.2
Bluetooth Mode:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40

Channel Separation:	2 MHz
Maximum Peak Power:	7.9 dBm
Antenna Type:	FPC antenna
Antenna Gain:	2 dBi
Normal Test Voltage:	3.3 Vdc
EUT Test software:	Bluetooth RF Test Tool
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b/g/n /ax
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS15 IEEE 802.11ax: Up to MCS11
Number of Channels:	IEEE 802.11b/g/n-HT20/ ax HE20: 11 IEEE 802.11n-HT40/ ax HE40: 7
Maximum Conducted Power:	IEEE 802.11b: 17.84 dBm IEEE 802.11g: 16.71 dBm IEEE 802.11n HT20: 18.44 dBm IEEE 802.11n HT40: 14.87 dBm IEEE 802.11ax HE20: 17.5 dBm IEEE 802.11ax HE40: 14.92 dBm
Antenna Type:	Copper tube antenna
Antenna Gain:	ANT1: 3 dBi, ANT2: 3 dBi
Normal Test Voltage:	DC 3.3V
EUT Test software:	AX Series MP Toolkit
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

Frequency Band:	5150 MHz to 5250 MHz (U-NII-1) 5250 MHz to 5350 MHz (U-NII-2A) 5470 MHz to 5725 MHz (U-NII-2C) 5 725 MHz to 5 850 MHz (U-NII-3)
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Frequency Range:	5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz
Support Standards:	IEEE 802.11a/n/ac/ax
TPC Function:	Not Support
DFS Operational mode:	Slave without radar Interference detection function
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n HT20/ac VHT20/ax HE20: 20 MHz IEEE 802.11n HT40/ac VHT40/ax HE40: 40 MHz IEEE 802.11ac VHT80/ax HE80: 80 MHz
Data Rate:	IEEE 802.11a: Up to 54 Mbps IEEE 802.11n HT20: Up to MCS15 IEEE 802.11n HT40: Up to MCS15 IEEE 802.11ac VHT20: Up to MCS8 IEEE 802.11ac VHT40: Up to MCS9 IEEE 802.11ac VHT80: Up to MCS9 IEEE 802.11ax HE20: Up to MCS11 IEEE 802.11ax HE40: Up to MCS11 IEEE 802.11ax HE80: Up to MCS11
Number of Channels:	5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 2 for IEEE 802.11n HT40/ac VHT40/ax HE40 1 for IEEE 802.11ac VHT80/ax HE80 5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 2 for IEEE 802.11n HT40/ac VHT40/ax HE40 1 for IEEE 802.11acVHT80/ax HE80 5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 5 for IEEE 802.11n HT40/ac VHT40/ax HE40 2 for IEEE 802.11ac VHT80/ax HE80 5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 2 for IEEE 802.11n HT40/ac VHT40/ax HE40 1 for IEEE 802.11ac VHT80/ax HE80
Antenna Type:	Copper tube antenna
Antenna Gain:	ANT1: 3 dBi,

	ANT2: 3 dBi
Normal Test Voltage:	3.3 Vdc
EUT Test software:	AX Series MP Toolkit
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this. The 802.11ax mode of EUT only supports SU, not RU tone.