

WMU6202

11ac 2T2R WIFI & BT Module

Technical Specifications

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STANDARDS

Wireless: IEEE 802.11a/b/g/n/ac (2T2R)
Bluetooth: v2.1/v3.0/v4.1/v4.2
Chipset: Realtek RTL8822BU

DATA RATE

802.11b: 11Mbps / 802.11a/g: 54Mbps / 802.11n: 300Mbps / 802.11ac:867Mbps

OPERATING FREQUENCY

IEEE 802.11 a/b/g/n Band, 2.412GHz ~ 2.484GHz, 5.150GHz ~ 5.850GHz

INTERFACE

Mini PCie for USB2.0 (WiFi+BT)
Antenna Ports : U.FL x 2 for 2T2R

MODULATION

802.11a: BPSK, QPSK, 16-QAM, 64-QAM
802.11b: DBPSK, DQPSK, CCK
802.11g: BPSK, QPSK, 16-QAM, 64-QAM
802.11n: BPSK, QPSK, 16-QAM, 64-QAM
802.11ac BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

RECOMMENDED OPERATING CONDITIONS

Operating Voltage: DC 3.3V ± 10%
Operating Temperature Range: -20°C ~ 70°C
Storage Temperature Range: -40°~ 125°C
Operating Humidity (non-condensing): 5% ~ 95, non-conensing
Storage Humidity (non-condensing): 5% ~ 90%, non-conensing
Power consumption: 2W(MAX)…TBD
Dimension (in mm): 30.02 x 26.89 x 4.3 mm

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Output Power & Sensitivity

Bluetooth		
Data Rate	**Tx +/- 2dB (Class 2 device)**	**Rx Sensitivity**
3Mbps	0≦Output Power≦+4dBm	＜0.1% BER at -70 dBm

802.11bg		
Data Rate	**Tx +/- 2dB**	**Rx Sensitivity +/- 2dB**
1~11Mbps	15dBm	-80dBm
24Mbps	15dBm	-70dBm
54Mbps	14dBm	-70dBm

802.11n/2.4GHz				
	Data Rate	**Tx +/- 2dB (1TX)**	**Tx +/- 2dB (2TX)**	**Rx Sensitivity +/- 2dB**
HT20	MCS 0	15dBm	18dBm	-70dBm
	MCS 4	14dBm	17dBm	-61dBm
	MCS 7	13dBm	16dBm	-61dBm
HT40	MCS 0	15dBm	18dBm	-70dBm
	MCS 4	14dBm	17dBm	-61dBm
	MCS 7	13dBm	16dBm	-61dBm

802.11a		
Data Rate	**Tx +/- 2dB**	**Rx Sensitivity +/- 2dB**
6Mbps	15dBm	-70dBm
24Mbps	15dBm	-70dBm
54Mbps	13dBm	-70dBm

802.11n/5GHz				
	Data Rate	**Tx +/- 2dB (1TX)**	**Tx +/- 2dB (2TX)**	**Rx Sensitivity +/- 2dB**
HT20	MCS 0	14dBm	17dBm	-70dBm
	MCS 4	13dBm	16dBm	-60dBm
	MCS 7	12dBm	15dBm	-60dBm
HT40	MCS 0	14dBm	17dBm	-70dBm
	MCS 4	13dBm	16dBm	-60dBm
	MCS 7	12dBm	15dBm	-60dBm

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802.11ac				
	Data Rate	**Tx +/- 2dB (1TX)**	**Tx +/- 2dB (2TX)**	**Rx Sensitivity +/- 2dB**
VHT20	MCS 0	14dBm	17dBm	-70dBm
	MCS 4	13dBm	16dBm	-60dBm
	MCS 8	12dBm	15dBm	-60dBm
VHT40	MCS 0	12dBm	15dBm	-60dBm
	MCS 4	10dBm	13dBm	-60dBm
	MCS 9	9dBm	12dBm	-50dBm
VHT80	MCS 0	12dBm	15dBm	-60dBm
	MCS 4	10dBm	13dBm	-60dBm
	MCS 9	9dBm	12dBm	-51dBm

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