

802.11ac/b/g/n USB Module

WUBM-273ACN

Industry-Leading Dual-Band 802.11ac/b/g/n 2T2R USB Module

Feature

- Standard: 802.11ac/b/g/n
- Interface: USB Type A or 12-pin wafer connector
- Chipset: MediaTek MT7612U
- Antenna: 2 x U.FL connectors, or printed antenna, 2T2R
- Data rate up to 866Mbps
- Enhanced wireless security: WEP, WPA, WPA2, 802.1x
- Support Windows XP/ Vista, Win 7, Win 8, Linux, Android by request

802.11ac/n Dual-Band Solution

SparkLAN WUBM-273ACN is an 802.11ac/b/g/n 2.4GHz + 5GHz USB module based on MediaTek MT7612U chipset. It supports 2T2R (2x2) technology, which runs up to 866Mbps (MSC9) and delivers superior Wi-Fi output power up to 18dBm.

Higher throughput for Multimedia application

Adopting the latest 802.11ac solution, WUBM-273ACN is ideal for high throughput networking and multimedia applications that requires better Wi-Fi performance.

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Specification

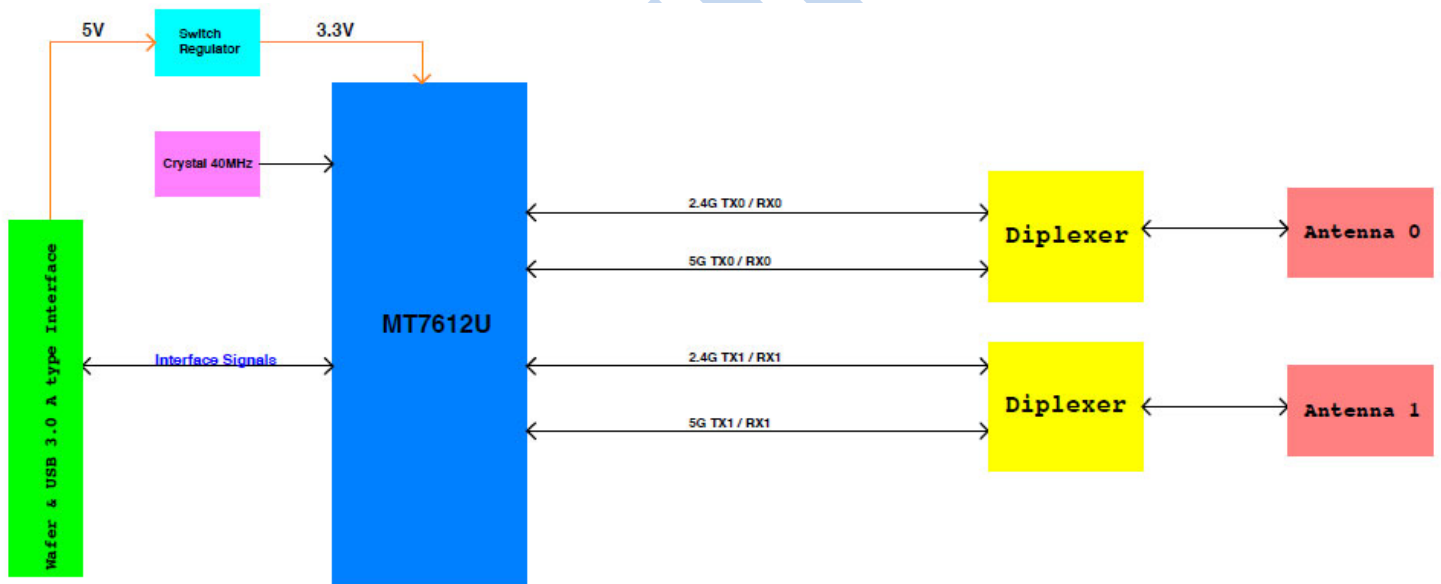
Standard	
802.11ac/b/g/n	
Chipset	
Mac/BB/RF	MediaTek MT7612U
Host Interface	
USB Type A or 12-pin wafer connector	
Form Factor	
USB Module	
Data Rates	
802.11a: 6~54Mbps / 802.11b: 1~11Mbps / 802.11g: 6~54Mbps 802.11n: MCS0 ~ MCS15 / 802.11ac: MCS0 ~ MCS9	
Radio	
Antenna	2 x U.FL connectors or printed antenna, 2T2R
Operating Frequency	ac/n ISM Band: 5.150GHz ~ 5.850GHz b/g/n ISM Band: 2.400GHz ~ 2.4835GHz *subject to local regulations
Modulation	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Output Power	802.11b: 15dBm ± 2dBm@11Mbps 802.11a: 12dBm ± 2dBm@54Mbps / 802.11g: 13dBm ± 2dBm@54Mbps 802.11gn (HT20): 12dBm ± 2dBm@MCS7 / 802.11gn (HT40): 12dBm ± 2dBm@MCS7 802.11an (HT20): 11dBm ± 2dBm@MCS7 / 802.11an (HT40): 11dBm ± 2dBm@MCS7 802.11ac (VHT80): 10dBm ± 2dBm@MCS9
Receive Sensitivity	802.11b: ≤ -76dBm@11Mbps 802.11a: ≤ -65dBm@54Mbps / 802.11g: ≤ -65dBm@54Mbps 802.11gn (HT20): ≤ -64dBm@MCS7 / 802.11gn (HT40): ≤ -61dBm@MCS7 802.11an (HT20): ≤ -64dBm@MCS7 / 802.11an (HT40): ≤ -61dBm@MCS7 802.11ac (VHT80): ≤ -51dBm@MCS9
Power consumption	
Continue TX	TBD
Continue RX	TBD
Idle	TBD
Operating Voltage	
DC 5V	
Environmental	
Temperature Range	0 ~ 40°C (Operating) / -10 ~ 70°C (Storing)
Humidity (Non-Condensing)	10% ~ 85% (Operating) / 5% ~ 90% (Storing)
Physical Specification	
Dimensions	55mm x 25mm x 3.3mm (± 0.5mm)
Weight	≤ 7g
Software	
Driver	Windows XP/ Vista, Win 7, Win 8, Linux , Android by request
Security	WEP, WPA, WPA2, 802.1x

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Mechanical Dimension (mm)

Block Diagram



*Specifications are subject to change without notice