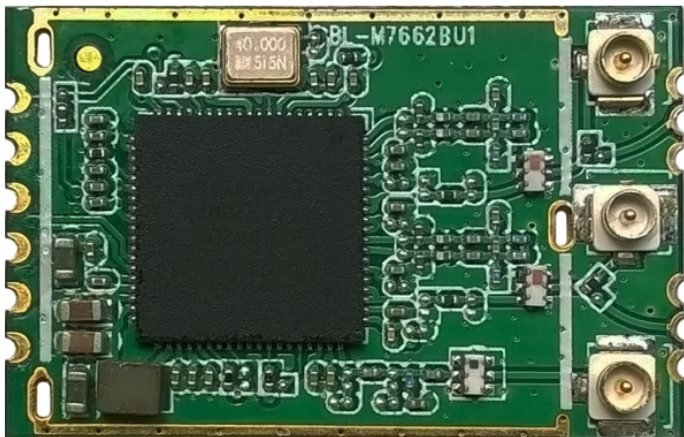




Model: IS-M7662BU1

MTK MT7662U CHIPSET

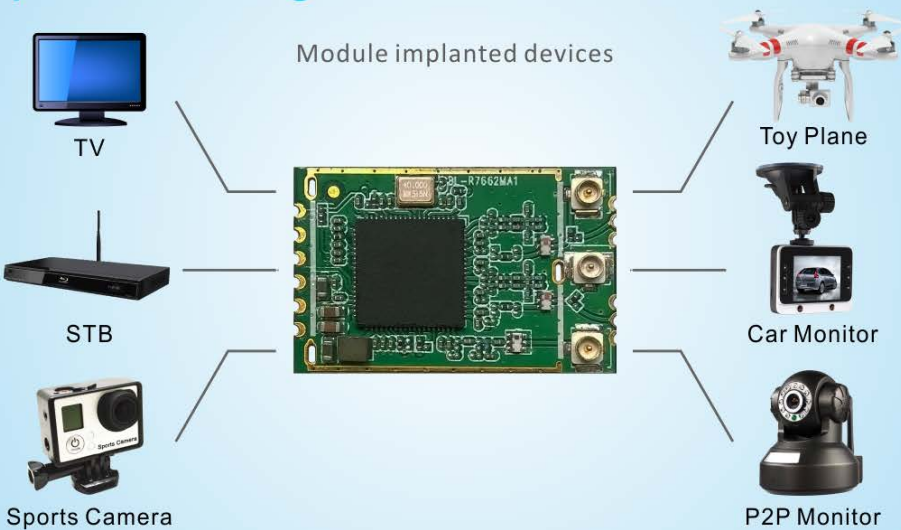
Product Application

- Laptop NB
- Tablet, MID
- USB dongle, DTV

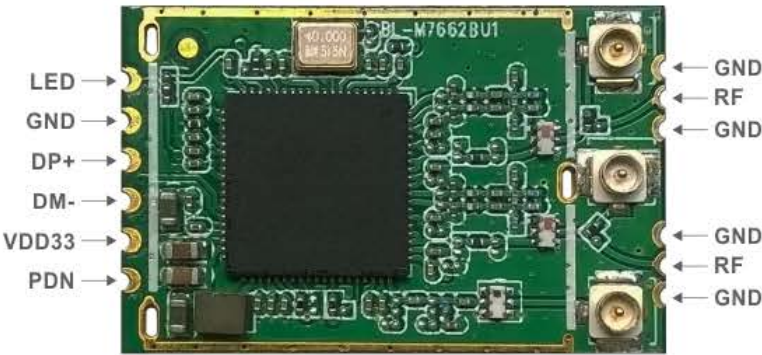
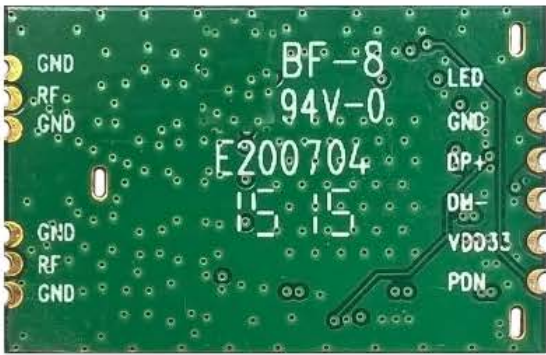
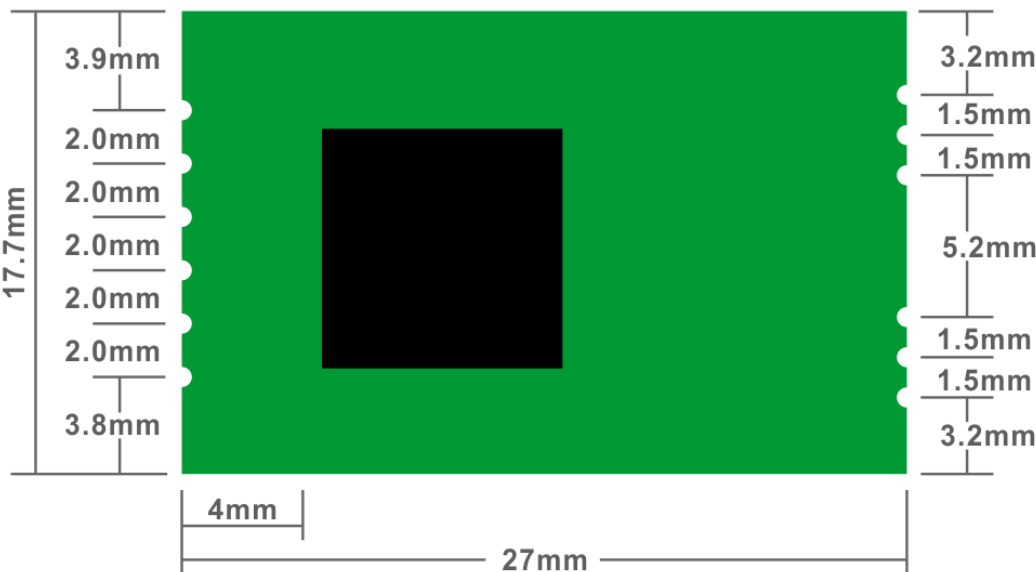
Product Introduction:

The MT7662U is a highly integrated single chip which has built in a 2*2 dual band wireless LAN radio and Bluetooth radio. It supports IEEE802.11ac draft standard and provides the highest PHY rate up to 867Mbps, offering feature-rich wireless connectivity and reliable throughput from an extended distance. It includes Bluetooth EDR and LE radio which complies with Bluetooth v2.1+EDR, v3.0, and v4.0+BLE.

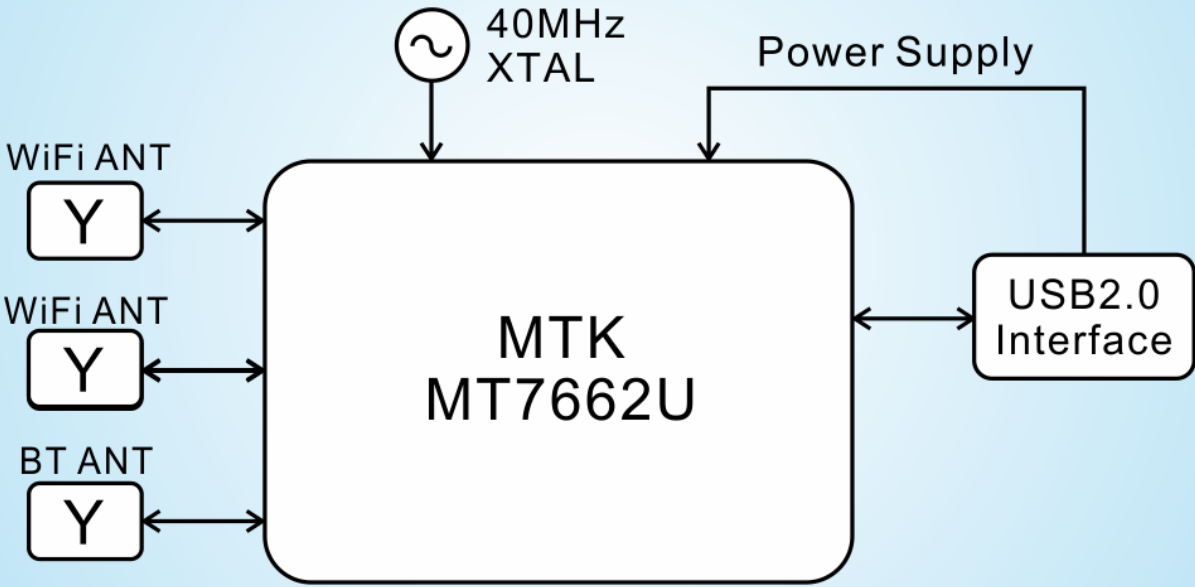
Application Diagram



Structure and Size:



Block Diagram



Specifications

Item	Description
Chipset	MT7662U
Interface type	USB2.0
Size(L*W*H)	27*17.7*2.3mm (LxWxH) Tolerance:+/-0.2mm
Power supply	DC3.3V (±5%)
Power Consumption	standby mode 65mA@3.3V , TX mode 2G 450mA@3.3V; TX mode 5G 625mA@3.3V
Standards	WiFi: IEEE802.11a,IEEE802.11b, IEEE 802.11g,IEEE 802.11n,IEEE802.11ac BT: V2.1+EDR/BT v3.0/BT v3.0+HS/BT v4.0
Frequency range	2.4GHz~2.4835GHz, 5.15GHz~5.85GHz
Modulation Types	WiFi: 802.11b: CCK, DQPSK, DBPSK; 802.11a/g: 64-QAM,16-QAM, QPSK, BPSK; 802.11n: 64-QAM,16-QAM, QPSK, BPSK; 802.11ac:256-QAM, 64-QAM,16-QAM, QPSK, BPSK; BT: 8DPSK, π/4 DQPSK, GFSK
Working Modes	Infrastructure, Ad-Hoc
Data transfer rate	WiFi: 1,2,5.5,6,11,12,18,22,24,30,36,48,54,135,300,up to 867Mbps BT: 1 Mbps for Basic Rate; 2,3 Mbps for Enhanced Data Rate
Sensitivity @PER	WiFi: 1M: -95dBm@8%PER; 6M: -90dBm@10%PER; 11M:-86dBm@8%PER; 54M:-74dBm@10%PER; 2.4G 11n mcs7 HT40: - 70dBm@10%PER 11ac mcs9 HT80: -51dBm@10%PER (Tolerance:+/-2dB) BT: -89dBm@1Mbps, -85dBm@2Mbps, -83dBm@3Mbps (Tolerance:+/-2dB)
RF Power	WiFi: 18dBm@11b,16dBm@11g ,15dBm@11a,15dBm@11n,13 dBm@11ac (Tolerance:+/-2dB) BT: +5.5~+10.5dBm for Class1.5 output power
Antenna type	Connect to the external antenna through the IPEX connector
Operating Temperature	Working temperature: -10℃ ~ 50℃ Storage temperature : -40℃ ~ 70℃