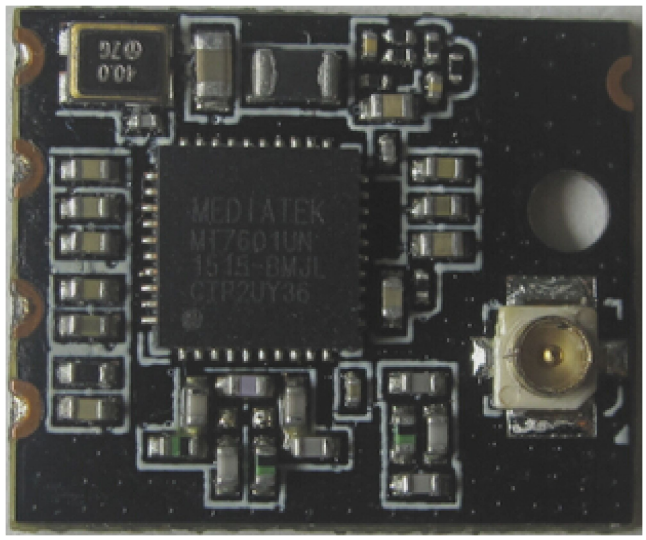

Wi-Fi MODULE SPECIFICATION

Part Number: MW1601-5P

Version: V 1.0

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CATALOG

1.Overview

The MW1601-5P is a highly integrated Wi-Fi single chip which support 150 Mbps PHY rate. It fully complies with IEEE 802.11n and IEEE 802.11b/g standards ,offering feature-rich wireless connectivity at high standards and delivering and baseband algorithms provide superb performance and low power consumption .intelligent MAC design deploys a high efficient DMA engine and hardware data processing accelerators which offloads the host processor .

The MW1601-5P is designed to support standard based features in the areas of security , quality of service and international regulations , giving end users the greatest performance any time and in any circumstance.

Applications:

*Desk-Top PC

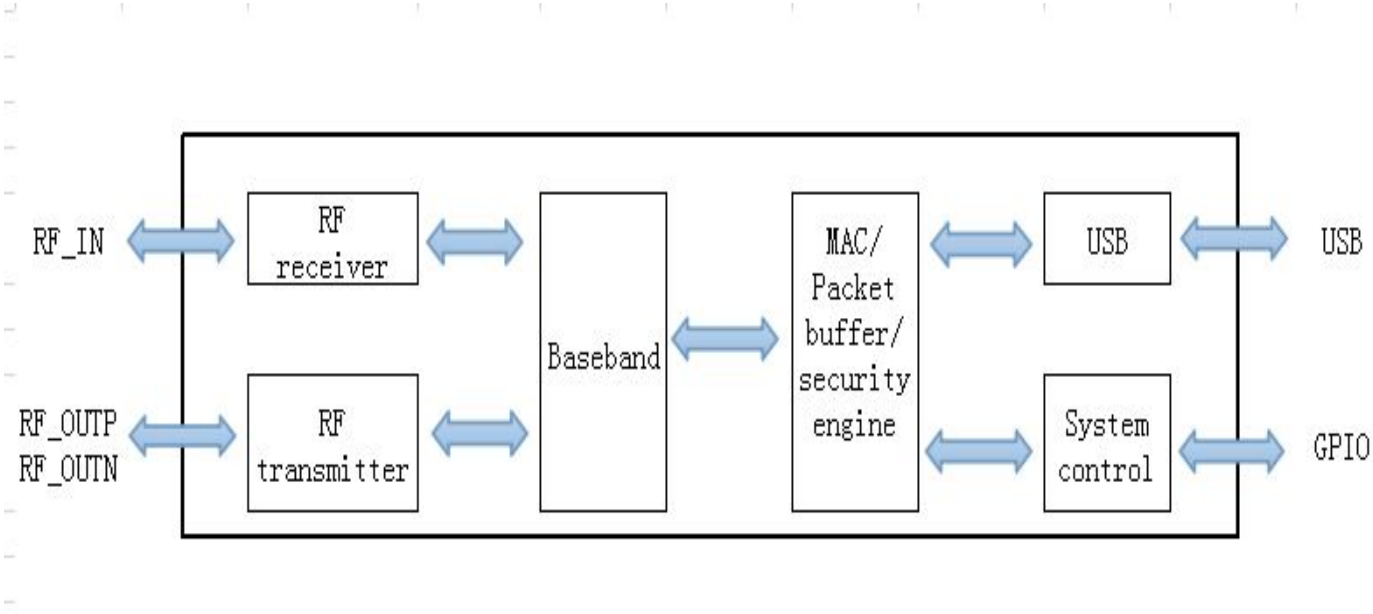
*Note-book

*Blue –ray Disk

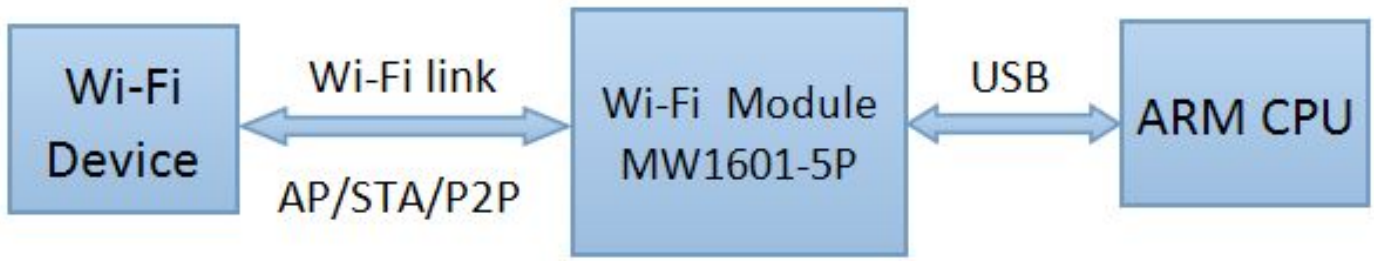
*Table PC

*Set-top box

2.Block Diagram



3.Application Diagram



4.FEATURE

WLAN

■ IEEE 802.11 b/g/n client

■ Embedded high-performance 32-bit PISC microprocessor

■Highly integrated RF with55nm CMOS technology

■1T1R mode with support of 150Mbps PHY rate

■ Integrate high efficiency switching regulator

■ Beat-in-class power consumption performance

■ 802.11d/h/k compliant

■ Security support for WFA WPA/WPA2 personal ‘ WPS2.0 ,WAPI

■ Supports 802.11w protected managed frames

■ QOS support of WFA WMM, WMM PS

■ Supports Wi-Fi Direct

■ Fully compliance with USB V2.0 High-speed mode

■ Per packet transmit power control

■ Antenna diversity

■Auto-calibration

5.WLAN Product Specification

Dimension	15.7mm*13.0mm*2.0mm
Chip-set	MT7601
Standard	IEEE802.11n;IEEE802.11g; IEEE802.11b;
Modulation Type	OFDM(CCK/16-QAM/64-QAM/ 256 QAM)
Frequency Band	2412-2462MHz
Interface	USB2.0
Spread Spectrum	DSSS
Transmission Distance	Indoor up to 100m, outdoor up to 300m(limited in an environment)
Data Security	64/128 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK(TKIP/AES)
Transmit Power	2.4G[11g: 15±2dBm, 11b:17±2dBm, 11n HT20 :14±2dBm,11n HT40 :13±2dBm]
Rx Sensitivity	135M:-64dBm@10% PER 54M:-68dBm@10% PER 11M:-80dBm@8% PER
Data Rate	802.11b[11,5.5,2 and 1Mbps] 802.11n(20MHz):up to 65Mbps 802.11n(40MHz):up to 135
Operating Temperature	-10℃~70℃