

1. General Description

IS-7601MU5C product Accord with FCC CE is a highly integrated Wi-Fi single chip which supports 150 Mbps PHY rate. It fully complies with IEEE802.11n and IEEE802.11b/g stands, offering feature-rich wireless connectivity at high standards, and delivering reliable, cost-effective throughput from an extended distance. Optimized RF architecture and baseband algorithms provide superb performance and lower power consumption. Intelligent MAC design deploys a high efficient DMA engine and hardware data processing accelerators which offloads the host processor. AB-R7601MU5C is designed to support standard based features in the areas of security quality of service and international regulations, giving end users the greatest performance anytime and in any circumstance.

2. The range of applying

MID, networking camera, STB GPS, E-book, Hard disk player, Network Radios, PSP, etc, the device which need be supported by wireless networking.

3. Features

Feature	Implementation
Power supply	VCC_3.3V +0.2V
Clock source	40MHz
Temperature range	Work temperature: - 20 ° C ~ 70 ° C Storage temperature - 50 ° C ~ 120 ° C
Package	SMT 6 pins
■IEEE 802.11b/g/n client	
■Embedded high-performance 32-bit RISC microprocessor	
■Highly integrated RF with 55nm COMS technology	
■1T1R mode with support of 150Mbps PHY rate	
■Integrate high efficiency switching regulator	
■Best-in-class power consumption performance	
■1/2/3/4-wire PTA Wi-Fi/Bluetooth coexistence support	
■IEEE 802.11d/h/k compliant	
■Security support for WFA WPA/WPA2 personal, WPS2.0 ,WAPI	
■Support 802.11w protected managed frames	
■QOS support of WFA,WMM,WMM PS	
■Support Wi-Fi Direct	
■Fully compliance with USB v2.0 High-Speed mode	
■Per packet transmit power control	
■Antenna diversity	
■Auto-calibration	

4. DC Characteristics

Symbol	Parameter	Minimum	Typical	Maximum	Units
VD33A, VD33D	3.3V Supply Voltage	2.97	3.3	3.63	V
VD12A, VD12D	1.2V Supply Voltage	1.14	1.2	1.26	v
VD15A, VD15D	1.5V Supply Voltage	1.425	1.5	1.575	v

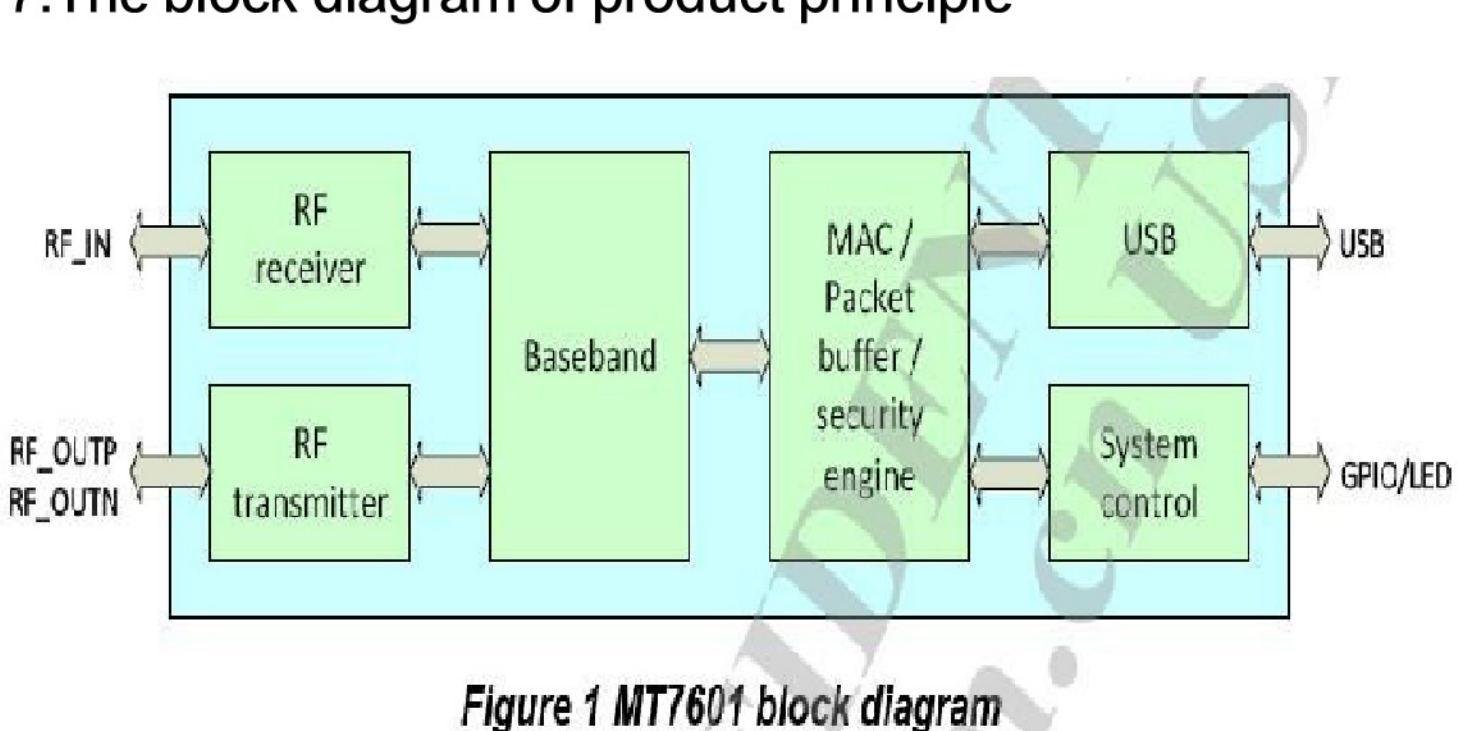
5.The main performance of product

Item	Description
The supported protocol and standard	IEEE 802.11n, IEEE 802.11g,EE 802.11b
Interface type	USB2.0
The range of frequency	2.4-2.484GHZ
The amount of working Channel	1-11（America, Canada）;1-13（China, Europe）;1-14（Japan）
Data Modulation	OFDM/DBPSK/DQPSK/CCK
Working Mode	Infrastructure, Ad-Hoc
The transmitting rate	135/54/48/36/24/18/12/9/6/1M（self-adapting）
Spread spectrum	DSSS
Sensitivity @PER	135M:-68dBm@8%PER, 54M:-74dBm@8%PER, 11M:-88dBm@8%PER, 6M:-90dBm@8%PER , 1M:-92dBm@8%PER,
RF Power	135M:14dBm 54M:15dBm 11M:18dBm
Throughput	90Mbps(external 2dbi antenna ,damping 40dbm in Shielding box)
The connect type of Antenna	Connect to the external
The transmit distance	Indoor 100M, Outdoor 300M, according the local environment
MENS(L*W*H)	20.3MM*14MM*8.5MM
The chipset model	MT7601

6. DC/RF characteristics

Specification : IEEE802.11b				
Mode	DSSS / CCK			
Frequency	2412 – 2484MHz			
Data rate	1, 2, 5.5, 11Mbps			
DC Characteristics	min	Typ.	max.	unit
TX mode	239	245	249	mA
Rx mode	91	92	93	mA
Sleep mode	47	48	48	mA
Specification : IEEE802.11g				
Mode	OFDM			
Frequency	2412 - 2484MHz			
Data rate	6, 9, 12, 18, 24, 36, 48, 54Mbps			
DC Characteristics	min	Typ.	max.	unit
TX mode	149	150	153	mA
Rx mode	92	93	100	mA
Sleep mode	46	48	49	mA
Specification : IEEE802.11n				
Mode	OFDM			
Frequency	2412 - 2484MHz			
Data rate	6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps			
DC Characteristics	min	Typ.	max.	unit
TX mode	151	152	153	mA
Rx mode	91	92	93	mA
Sleep mode	47	48	49	mA

7.The block diagram of product principle



8. The supported platform

Operating System	CPU Framework	Driver
WIN2000/XP/VISTA/WIN7	X86 Platform	Enable
LINUX2.4/2.6	ARM, MIPSII	Enable
WINCE5.0/6.0	ARM ,MIPSII	Enable

9.The definition of product Pin

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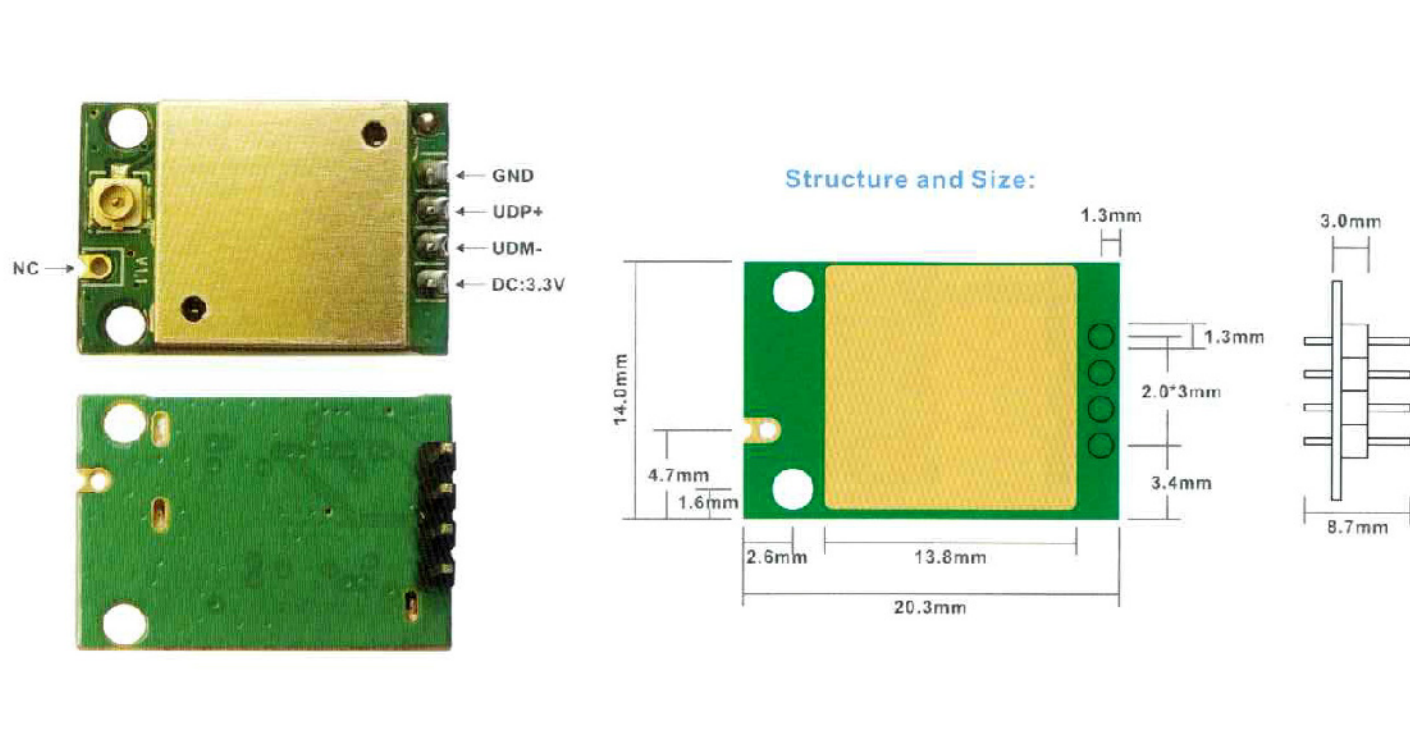
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PIN definition

Pin No:	TYPE	Description
1	P	DC :3.3V
2	I/O	UDM-
3	I/O	UDP+
4	P	GND
5	NC	NC

10.The Structure and Size of product



11.Typical Solder Reflow Profile

