

# Product Specification

**XW604D**

**IEEE802.11b/g/n 1T1R USB Dongle**

**Version: 0.1**

2011/10/18

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## Release History

DATE	REV	Description of Change
2011/10/18	1.0	Initial release

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## XW604D

### IEEE802.11b/g/n 1T1R USB Dongle

#### 1 Features

- 1T1R Mode with 150Mbps PHY Rate for Both Transmit and Receiving.
- Legacy and High Throughput Modes
- 20MHz/40MHz Bandwidth.
- Reverse Direction Grant Data Flow and Frame Aggregation
- WEP 64/128, WPA, WPA2,TKIP, AES, WAPI
- QoS-WMM, WMM-PS
- WPS,PIN,PBC
- Multiple BSSID Support
- USB 2.0
- Cisco CCX Support
- Low Power with Advanced Power Management
- Operating Systems - Windows XP 32/64, 2000, Windows 7,Vista 32/64 , Linux, Macintosh

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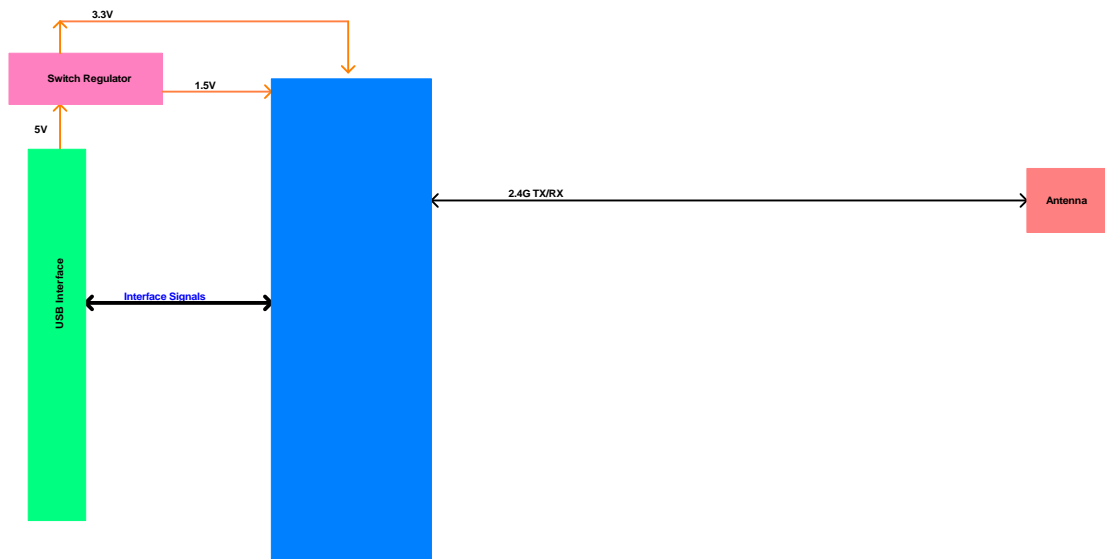
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## 2 Block Diagram



### 3 General Specifications

Module Name					
XW604D					
Product Specification					
WLAN Standard	IEEE 802.11b/g/n, 1T1R				
Host interface	USB2.0				
Major Chipset	Ralink RT5370N				
PID	TBD	Product ID			
VID	TBD	Vendor ID			
RID	TBD	Revision ID			
Board Dimensions					
		Minimum	Typical	Maximum	Unit
	Length		50		mm
	Width		21.8		mm
	Height		TBD		mm
	Weight		TBD		g
Antenna Type	Single PCB printed antenna				
Operating Condition					
		Minimum	Typical	Maximum	Unit
Voltage	DC	4.4	5	5.25	V
Temperature		-10		70	°C
Storage temperature		-20		70	°C
Humidity Non-Operating		5		80	%
Electrical Specification					
Frequency Range	2400 – 2483.5MHz				
Modulation	BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, and CCK				
Output power					
		Minimum	Typical	Maximum	Unit
802.11b Mode	11MHz	15.5	17	18	dBm
802.11g Mode	54MHz	12.5	14	15	dBm
802.11n Mode	HT20-MCS7	11.5	13	14	dBm
802.11n Mode	HT40-MCS7	9.5	11	12.5	dBm

Receiver Sensitivity					
		Minimum	Typical	Maximum	Unit
802.11b Mode	11Mbps			-83	dBm
802.11g Mode	54Mbps			-65	dBm
802.11n Mode	HT20 MCS7			-64	dBm
802.11n Mode	HT40 MCS7			-61	dBm
Data Rate					
		Minimum	Typical	Maximum	Unit
802.11b CCK Mode		11, 5.5, 2, 1			Mbps
802.11g OFDM Mode		54, 48, 36, 24, 18, 12, 9, 6			Mbps
802.11n HT20 Mode	800ns GI	65, 58.5, 52, 39, 26, 19.5, 13, 6.5			Mbps
802.11n HT20 Mode	400ns GI	72.2, 65, 57.8, 43.3, 28.9, 21.7, 14.4, 7.2			Mbps
802.11n HT40 Mode	800ns GI	135, 121.5, 108, 81, 54, 40.5, 27, 13.5			Mbps
802.11n HT40 Mode	400ns GI	150, 135, 120, 90, 60, 45, 30, 15			Mbps
Operation Range					
Open Space	TBD				
Indoor	TBD				
Security					
WEP 64/128, WPA, WPA2, TKIP, AES, WAPI					
Operating System Compatibility					
Windows XP 32/64, 2000, Windows 7, Vista 32/64, Linux, Macintosh					

#### 4 Absolute Maximum Rating

■ Maximum I/O supply voltage	3.6	V
■ Maximum WLAN RF input level (reference to 50Ohm)	0	dBm

### 5 Mechanical Dimension

