

**1. Introduction**  
 This mini profile WLAN adapter with Rotatable antenna supporting IEEE 802.11 b/g/n standards with USB connector supporting USB 2.0 interface.

**1.1 Scope**

This is a high integrated MAC/BBP and 2.4GHz RF/PA/LNA single chip with 150Mbps PHY rate supporting. It fully complies with IEEE802.11n and IEEE802.11b/g standards, delivers reliable, connectivity at high standards, delivers reliable, cost-effective, throughput from an extended distance. It is designed to support standard based features in the areas of security, quality of service and international regulation, giving end users the greatest performance anytime in any circumstance. The very small and compact WLAN adapter design is good for wireless connectivity when an external antenna needs.

**1.2 Feature**

- 802.11b: 1, 2, 5.5, 11Mbps.
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps.
- 802.11n: (20MHz) MCS0-7, Support up to 72Mbps.  
 (40MHz) MCS0-7, Support up to 150Mbps.
- OFDM, Peak rate 150Mbps, Peak throughput 90Mbps.
- Security support for 64/128 WEP, WPA, WPA2, TKIP, AES.
- Operates in 2.4GHz frequency bands. Power Management.

**2. Product Information**

**2.1 Software and System information**

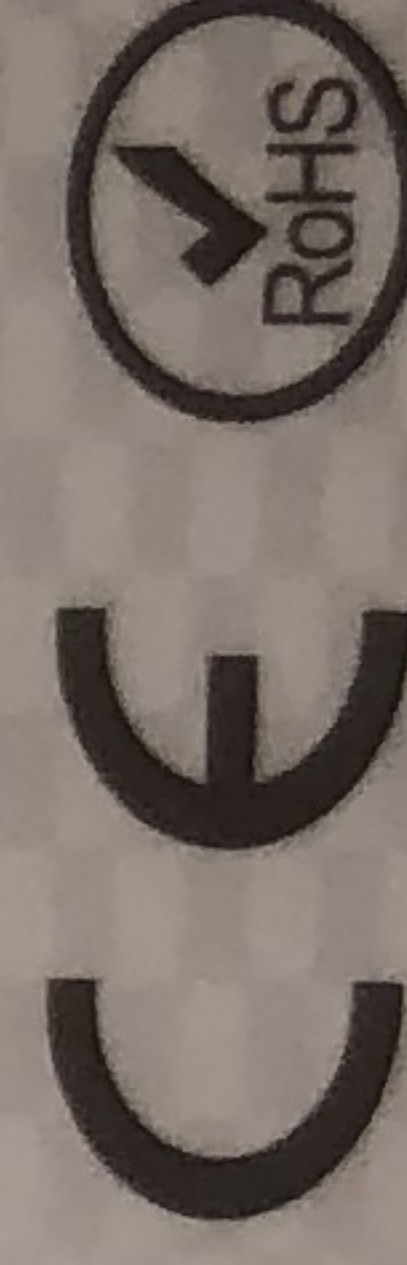
Operation System	CPU Supplier	Driver
Linux 2.4/2.6	ARM, MIPS	Avaiable
WinXP/Win7/Win8/Win10	X86 Platform	Avaiable
Mac OS X 10.3/10.4/10.5/10.6	N/A	Avaiable

**2.2 Specification**

Hardware	
Main Chipset	MTK7601
Host interface	USB 2.0/1.1 Type A
RF Performance	
Standards	IEEE 802.11 b/g & 820.11n (1T1R Mode, 150Mbps)
Antenna	2dBi undetachable antenna
Operation Frequency	2412~2483.5MHz(Varies according to different regions)
Typical Tx Power(E.R.I.P)	802.11b(CCK)11Mbps: 19±1dBm
	802.11g(OFDM)54Mbps: 16±1dBm
	802.11n(HT20@MCS7), 15±1dBm
	802.11n(HT40@MCS7), 15±1dBm
Receive Sensitivity	802.11b: -86±1dBm
	802.11g: -74±1dBm
802.11n(HT20), -70±1dBm	802.11n(HT40), -70±1dBm
Software Support	
Operation System	WinXP/Win7/Win8/Win10 Linux 2.4.X; Mac OS X.
Security	WEP 64/128bit, WPA, WPA2, 802.1x, 802.11i, WPA2-PSK, WPA2-CCX compliant
Operation Condition	
Voltage Range/C	DC 5.0V±5%<160mA
Temperature	Operation: 10°C~60°C Storage: -20°C~70°C
Humidity (Non-Condensing)	Operation: RH 95% Storage: RH 95%
Physical Specification	
Dimensions	16.4*14.7*137mm
Net Weight	9.8g

Specifications is subject to change without notice.

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