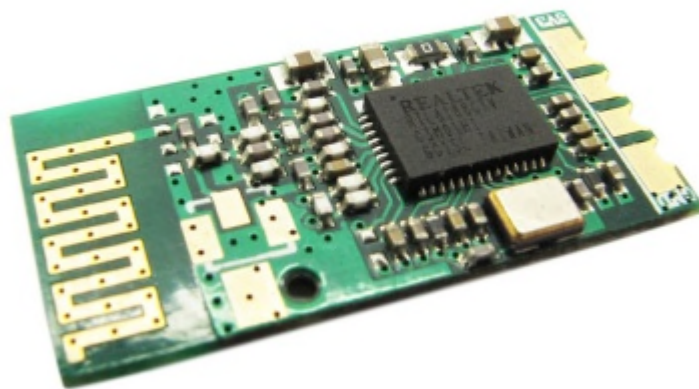


# SME 150MB-11N/G/B WIFI CARD MODU

## Overview

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Adopted with an international advanced Realtek RTL8188CTV chip from Taiwan, W5 is a low cost, high linear output power, 150M USB wireless card module. W5 is not only in accord with IEEE802.11n standard but also compatible with IEEE802.11g and IEEE802.11b standard. Supported the newest 64/128 bits WEP encryption and WPA-PSK/WPA2-PSK, WPA/WPA2 security mechanism, W5 use 11N transmission technology, which can reach the wireless transmission speed as high as 150Mbps. Moreover, W5 can communicate with other wireless devices that are conformed the 11N standard. This module can adapt to different working environments and make the desktop computers, laptops, tablet computers, network cameras, set-top boxes, GPS and other devices that needs to implement wireless networking easily access to wireless network.

**Attention: This module is 3.3 V power supply, with a debugged on-board PCB antenna.**

Support Windows XP/Vista/Windows 7/LINUX/WIN CE/MAC OS/Android and other operating system.

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## Specification

Module name	HLF-W5
Product name	WLAN 11n USB module
Main Chip	Realtek RTL8188CTV
Standard	IEEE 802.11n/b/g, 802.3, 802.3u
Frequency range	2.4~2.4835 GHz ISM Band
Spread Spectrum	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n:OFDM (Orthogonal Frequency Division Multiplexing)
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90,120 and maximum of 150Mbps
Operation voltage	DC 3.3V
Operation current	95~200mA
Interface	USB2.0
Modulation Type	OFDM/DBPSK/DQPSK/CCK
Channel Number	14
Wireless Tx Power	< 13dBm@11n,< 18dBm@11b,< 14dBm@11g
Wireless Rx Sensitivity	11Mbps: -86dBm@8% 54Mbps: -73dBm@10% 130Mbps: -66dBm@10%
Supported OS	Windows 2000,XP3264,Vista 32/64,Win7 32/64,WIN CE, Linux,Mac,Android...
Antenna	External
RF Input Impedance	50 $\Omega$
Transmission Range	100 indoor, 300 outdoor
Dimension	25.0*12.0*2.3 mm (L x W x H)
Manufacture workmanship	RoHS Compliant

# Electronic Characteristics

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## Absolute Maximum Ratings

Operating Condition	Min	Max	Unit
Storage Temperature	-30	115	°C
Operation temperature	-20	100	°C
Supply Voltage (3.3V)	-	3.6	V

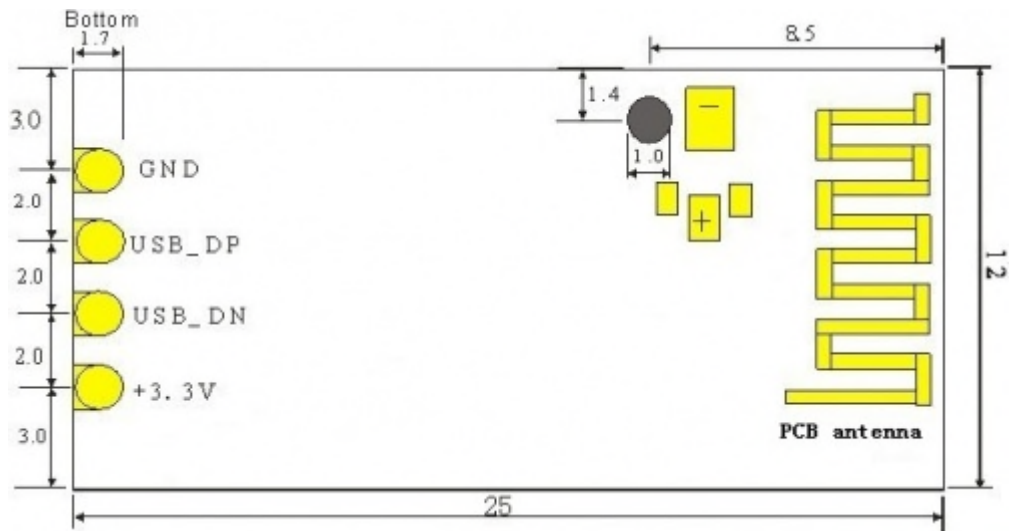
## Recommended Operating Conditions'

Operating Condition	Min	type	Max	Unit
Storage Temperature	-20	20	100	°C
Operation temperature	-15	20	90	°C
Supply Voltage (3.3V)	3.1	3.3	3.4	V

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# Hardware

- unit:mm



# Block Diagram

