

SDWF-61/111H
WIFI Module
Operating manual
(Trial version)

CKA2.891.XXX

2013.1

1. Summary

SDWF-61/111H WIFI module is a suitable receiving IEEE802.11b/g/n WLAN receiver. Design of SDWF-61/111H WIFI module, including RF impedance of antenna, matching, USB port impedance matching, power supply unit. SDWF-61/111H WIFI module can be USB2.0 or PIN connected to the TV, PC or PDA equipment.

This product is of high reliability, strong universality. In terms of electrical performance, stable and reliable work. (see Figure)

2. Technical indicators

2.1 service restrictions

temperature limit: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$,
Relative humidity: $\leq 90\%$,
Atmospheric pressure: $86\text{kPa} \sim 106\text{kPa}$.

2.2. Electrical characteristics

2.2.1 Transmit power

Frequency in 2412MHz (1CH), 2437 MHz (6CH), 2462 MHz (11CH) transmit power value as shown in table 1.

Table 1 The transmit power value

Protocol	Transmit power
802.11b(11M)	$16.0 \pm 2 \text{ dBm}$
802.11g(54M)	$13.0 \pm 2 \text{ dBm}$
802.11n(150M)	$13.0 \pm 2 \text{ dBm}$

2.2.2 EVM

Frequency in 2412MHz (1CH), 2437 MHz (6CH), 2462 MHz (11CH) EVM values are shown in table 2.

Table 2 EVM value

Protocol	EVM
802.11b(11M)	$< 8\%$
802.11 (54M)	$< -25\text{dB}$
802.11n(150M)	$< -25\text{dB}$

2.2.3 Frequency accuracy of 2.2.3 (Freq Offset)

Frequency in 2412MHz (1CH), 2437 MHz (6CH), 2462 MHz (11CH) frequency accuracy as shown in table 3.

Table 3 Frequency accuracy

Protocol	Frequency accuracy
802.11b(11M)	±25 kHz
802.11g(54M)	±25 kHz
802.11n(150M)	±25 kHz

2.2.4 Throughput test

Frequency in 2412MHz (1CH), 2437 MHz (6CH), 2462 MHz (11CH) throughput as shown in table 4.

Table 4 Throughput

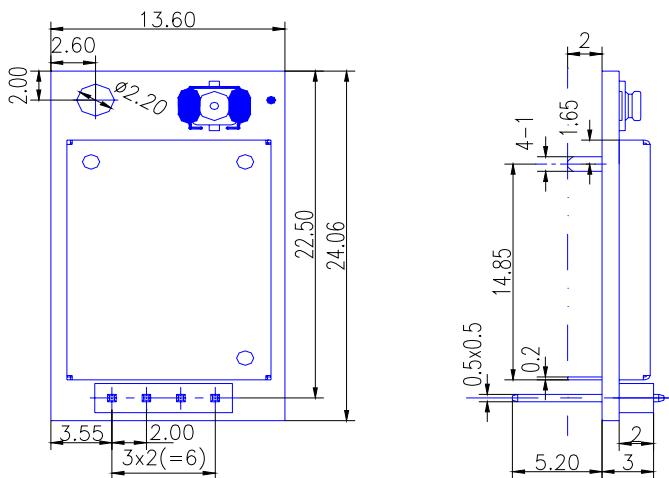
Protocol	Throughput
802.11b(11M)	3 Mbps
802.11g(54M)	15 Mbps
802.11n(150M)	40 Mbps

2.2.5 Internet experience test

In 802.11b/g/n, the distance of router 10m, separated by a wall, playback buffer fast, smooth.

3. SDWF-61/111H Pin definition and mechanical dimensions

Pin	1	2	3	4
Definition	Ground	USB Data+	USB Data-	Vcc



NOTE:
1. UNITS IS mm.
2. Tolerance are ± 0.5 unless otherwise specified.

SDWF-61/111H mechanical diagram

4. Use and repair

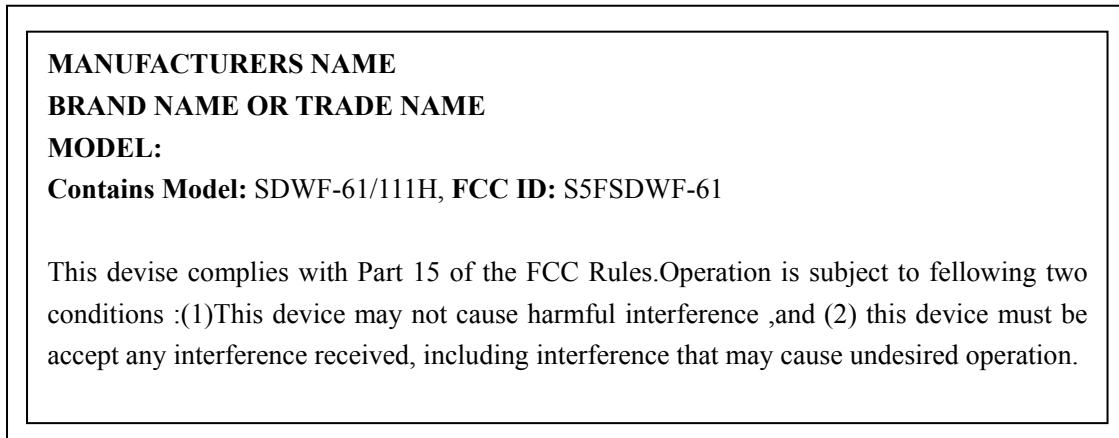
Electronic products this product belongs to high density, high technology, specifically for TV, PC production plant use, do not use due to mechanical impact and external direct action, the appearance by the damage phenomenon. If the product fails, by professional technicians to repair.

5. Special version

SDWF-61/** is a SDWF-61 product, suffix ' * * * ' is made by use of manufacturers and other information that has no effect on the product itself.

OEM Labeling Requirements

NOTICE: The OEM must make sure that FCC labeling requirements are met. This includes a clearly visible exterior label on the outside of the final product housing that displays the contents shown in this label.



FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled Environment. This equipment should be installed and operated with minimum distance 20 cm. Between the radiator & your body.