



- 1. Install according to the schematic diagram**
- 2. After wireless USB adapter is connected to PC, install the driver**
- 3. The output power shall be adjusted by professionals in accordance with the requirements of the FCC regulations**

Professional installation statement:



This device is a wireless USB adapter. This product adopts the specified amplifier and antenna, which will always be marketed and used as a complete system, and always be in its authorized configuration, and then input special code by professional installer to install according to the requirements of FCC regulations

This equipment is professional installation, relevant warnings and instructions are as follows:

1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet regulatory RF exposure requirement

3. External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.

4. Installation procedure

Please refer to user's manual for the detail

5. Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty

PRODUCT MANUAL



Product Description

The 2.4 GHz WLAN signal booster is designed for IEEE 802.11b/g/n Wireless LAN applications. It adopts the direct sequence spread spectrum (DSSS) and orthogonal frequency division multiplexing (OFDM) technology of WLAN communication. The product is compatible with time-division duplexing (TDD) method of WLAN and using rapid microwave detection technology to provide high linearity amplification. The signal booster can work with most WLAN/Wi-Fi devices and increase the WLAN signal strength, therefore a larger WLAN coverage and more stable transmission rate.

Applications

- Wireless LAN 802.11b/g/n access point clients
- Based on the 2.4GHz WLAN wireless base stations
- Based on the 2.4GHz WLAN wireless bridges
- Indoor distribution systems (multi-play) in the combiner
- Based on Zigbee, Bluetooth protocol wireless devices

Key Features

- 20X the power, improving the link quality and coverage of certified WLAN devices



- **2.5dB ultra-low noise**
- **Wide 6v to 55v operating input range**
- **Working with certified IEEE 802.11 b/g/n Wireless LAN devices**
- **Simply plug and play, no software is required**

Specifications

- **Frequency Range : 2.4~2.5GHz**
- **Operating Voltage: 6~55V**
- **Receiving Gain: 25dB±1**
- **Transmission Gain: 13dB±1**
- **Input Trigger Power: Min: 3dBm Max: 30dBm**
- **Maximum Output Power(P_{1dB}): 37dBm (5W)**
- **EVM: 3%@29dBm 802.11g 54Mbps OFDM 64QAM BW 20MHz**
- **DC Supply Current: 575mA@Pout 29dBm 12V**
- **Noise Figure: < 2.5dB**
- **TX/RX Switch Time Delay: < 1us**
- **LED Indicator: Transmitter: green; Receiver: red**
- **Operating Ambient Temperature: -40°C~+70°C**
- **Operating Humidity: up to 95% rel. humidity**
- **Dimension: 103.5mm×96.5mm×30.5mm**
- **Weight: 0.4Kg net**



FCC Information

FCC Statement and Declaration: Huashi Wireless declares that this device complies with Part 15 of the FCC Rules and Regulations. Operation of this device is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Notice: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

FCC Caution and Safety Notices: Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. Avoid use of this product near water or during a thunderstorm as there may be a remote risk of electrical shock from lightning. This product may contain lead, known to the State of California as a cause of cancer, and birth defects or other reproductive harm. Wash hands after handling.

FCC Notice for Signal Amplifiers/Boosters: Signal Amplifiers and Booster only be used in a Wireless USB Adapter in which it has obtained authorization from the FCC ID:2AQVQHS2405X1
Signal Boosters may not be used with any device which has not obtained proper FCC authorization or has not been certified for use as a system with the Signal Booster