

**Shenzhen Kingnet Electronic Co., Ltd**  
**11N Wireless USB Dongle**  
**K2-544DW**  
**User Manual**



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## 1. Introduction

Our IEEE 802.11b/g/n Mini 6PIN USB 2.0 wireless module ---K2-544DW USB 2.0 wireless module is a highly integrated wireless local area network (WLAN) solution to let users enjoy the digital content through the latest wireless technology without using the extra cables and cords. It enables a high performance cost effective low power. Compliant with the IEEE 802.11b/g/n standard, the K2-544DW uses Direct sequence Spread Spectrum(DSSS),Orthogonal Frequency Division Multiplexing(OFDM), BPSK, QPSK, CCK and QAM baseband modulation technologies, A high level of integration and full implementation of the power management functions specified in the IEEE802.11 standard minimize system power requirement by using K2-544DW.

## 2. Feature

Wireless N speed up to 150M bps , 1T1R delivers greater throughput at range versus conventional 1T1R

Low Power consumption and high performance

Supports 64/128 WEP, WPA /WPA2/WPA-PSK/WPA2-PSK(TKIP/AES), supports IEEE 802.1X

Supports Windows 2000, Windows XP 32/64bit, Vista 32/64bit, Windows 7 32/64bit, Linux

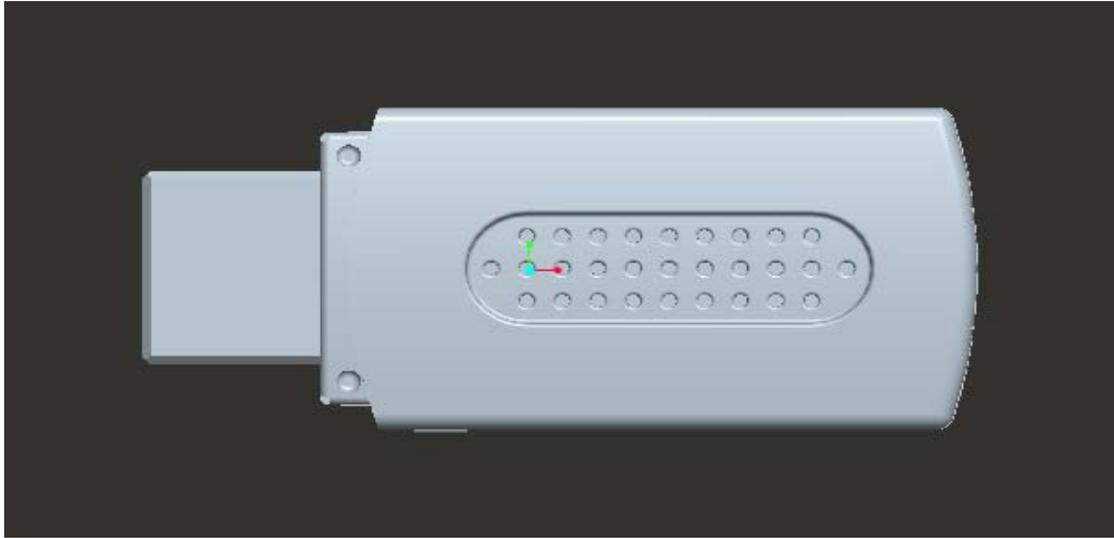
Supports ad-hoc and infrastructure mode

Seamlessly compatible with 802.11n/b/g products

### 3. General Specification

Hardware Features	
Model	K2-544DW
INTERFACE	USB2.0 Dongle
ANTENNA TYPE	On-board
Chipset solution	AR9271
Voltage	5V
DIMENSIONS(W×D×H)	50*20*9mm(with case)
Wireless Features	
WIRELESS STANDARDS	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
FREQUENCY RANGE	2.400-2.4835GHz
SIGNAL RATE	11n: Up to 150Mbps(dynamic) 11g: Up to 54Mbps(dynamic) 11b: Up to 11Mbps(dynamic)
RECEIVE SENSITIVITY	130M: -68dBm@10% PER 108M: -68dBm@10% PER 54M: -68dBm@10% PER 11M: -85dBm@8% PER 6M: -88dBm@10% PER 1M: -90dBm@8% PER
MODULATION TECHNOLOGY	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM
WIRELESS SECURITY	Support 64/128 bit WEP, WPA-PSK/WPA2-PSK, Wireless MAC Filtering
WIRELESS TRANSMIT POWER	<15dBm(EIRP)
WORK MODE	Ad-Hoc / Infrastructure mode
Others	
CERTIFICATION	CE, FCC, RoHS
CONSUME	500mW(Typical)
PACKAGE CONTENTS	Bulk packing: Wireless Adapter K2-544DW 100PCS/CTN
SYSTEM REQUIREMENTS	Windows 7(32/64bits), Windows Vista(32/64bits), Windows XP(32/64bits), Windows 2000, Linux
ENVIRONMENT	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing

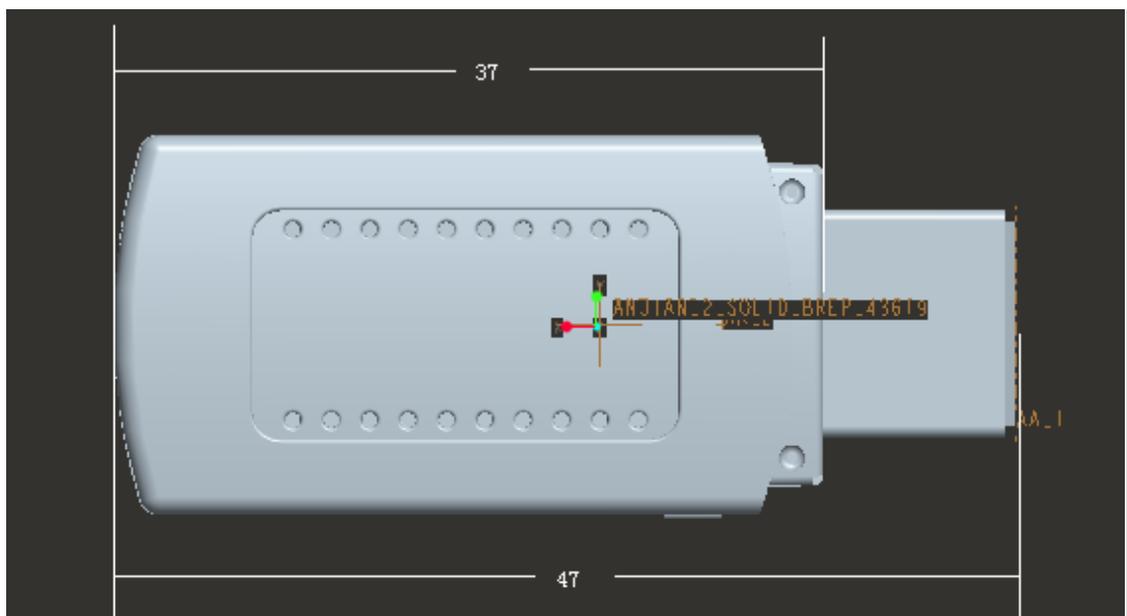
#### 4. Housing

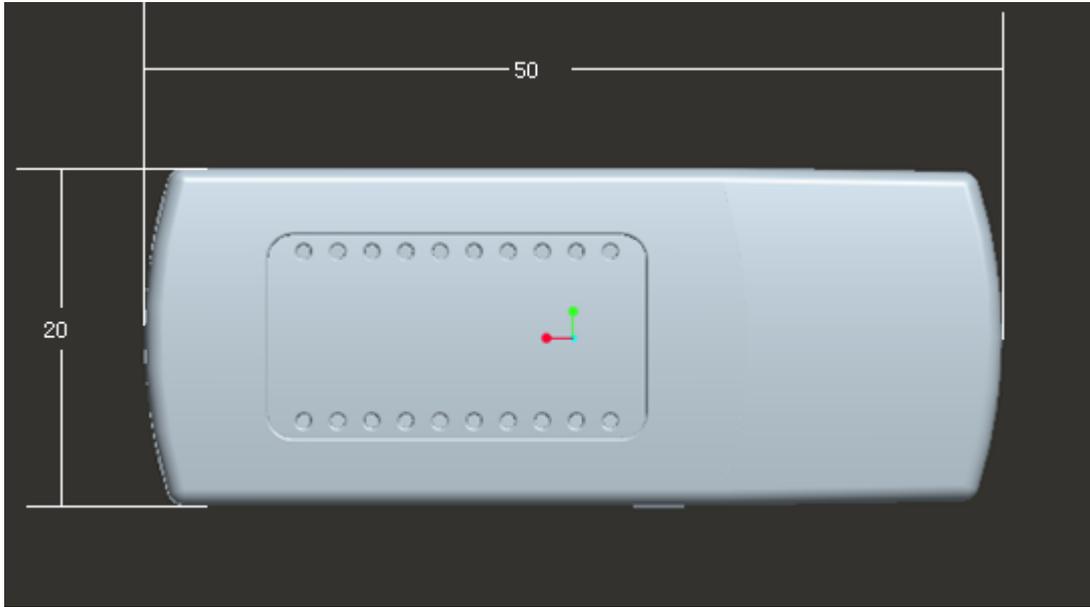


#### 5. Pin definition

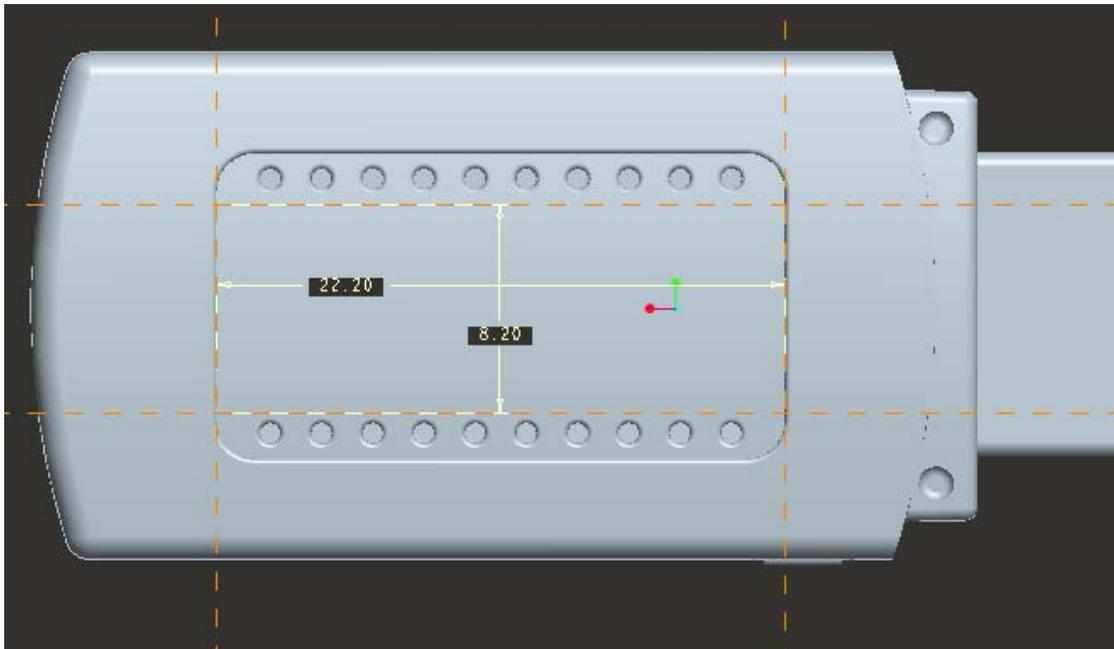
Pin number	Name	Type	Description
1	Power	Power	5V Power input
2	USB_D-	Digital	USB Differential signal
3	USB_D+	Digital	USB Differential signal
4	GND	Power	Ground

#### 6. Mechanical Dimension ( Size: mm)





**Lable Size(mm):**



**Caution:**

Use 11N Wireless USB Dongle in the environment with the temperature between -20°C and 50°C; otherwise, it may damage your phone. It can be operating under 2000m.

For the following equipment: 11N Wireless USB Dongle

**CE 0700**

Is in compliance with the essential requirements and other relevant Provisions of Directive 1999/5/EC.

The equipment was passed. The test was performed according to the following European standards:

EN 301 489-1 V1.8.1 :2008

EN 60950-1:2006+A11:2009

EN 300 328 V1.7.1:2006

EN 301 489-17V1.3.2: 2009

EN 62311:2008

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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, 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.