

# KB52U Bluetooth Class 2 USB Adapter Spec



## **DESCRIPTION ::**

KB52U USB class 2 **Bluetooth**® wireless technology Dongle is Wireless networking device for you to use. With slim and stylish shape, it is easy for your PC or notebook to communicate with other Bluetooth enabled devices freely. Comply with **Bluetooth**® wireless technology new Specification V2.0+EDR(Enhanced Data Rate), you can access internet synchronize pc and notebook computer. It also works with **Bluetooth**® wireless technology-enabled mobile phones to allow you to browse the internet , receive and send email anytime and anywhere.

Moreover, the innovative Bluetooth A2DP(Advanced Audio Distribution Profile), AVRCP(Audio Video Remote Control Profile), and BIP(Basic Image Profile) are included in the software driver to enable your PC/NB to use stereo audio headset with remote function, and received pictures from Bluetooth mobile phones directly.

## **FEATURE :**

- Comply with **Bluetooth**® wireless technology Specification V2.0+EDR
- New **Bluetooth**® wireless technology V2.0+EDR Mandatory Functionality
  - 1. Adaptive Frequency Hopping (AFH)
  - 2. Faster Connections
  - 3. Flow and Flush Timeout
  - 4. Parameter Ranges
  - 5. Data Rate up to 2Mbps ~ 3Mbps

- Optional V2.0+EDR Functionality Supported
  1. Extended SCO (eSCO) EV3+CRC, EV4, EV5
  2. Scatter Mode
  3. LMP Absence Mark, Quality of service and Sco handle
  4. L2CAP flow and error Control
  5. Synchronization
- Built-in Link controller and Link Manager Protocol
- HCI interface over USB
- USB interface fits desktop PCs / Notebooks
- Compliant with USB V1.1 Specification, USB V2.0 compatible
- Bluetooth® wireless technology Class 2 operation with 10 to 20m range(in open space)
- User-friendly software interface provides an easy way to connect other *Bluetooth*® wireless technology devices

## **APPLICATIONS :**

Notebook/PC to connect PDA, Access Point, USB Dongle, Headphone, stereo Headset, UART adapter, Modem, HID Mouse, PC peripherals embedded Bluetooth products.

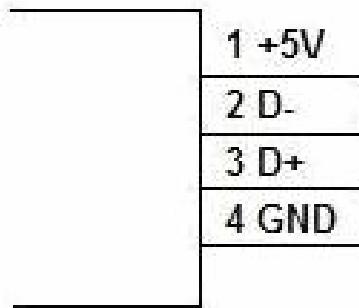
## **NOTE :**

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

## **SPECIFICATION :**

<b>Item</b>	<b>SPECIFICATION</b>
Standard	<i>Bluetooth®</i> wireless technology V2.0+EDR
Interface	USB (Type A)
Link Mode	ACL, eSCO (Extended Synchronous Connection-Oriented)
Data Rate	Up to 3Mbps
Radio Frequency Band	2402 ~ 2480 MHz
System support	Microsoft Windows 2000//ME/XP/Vista
Dimension	52mm x 21mm x 9mm
Receiving sensitivity	-79dBm @0.1%BER
RF Output Power	-2 dBm ~ + 4dBm, class 2
Operating Distance	Up to 20 meters (in open space)
I/O interface	USB V1.1 , USB V2.0 compatible
Input power	DC +5 V (USB power)
LED indicator	Single LED
Modulation method	GFSK(Gaussian Frequency Shift Keying), EDR -- $\pi/4$ -DQPSK, 8 DPSK(3Mbps, optional)
USB Specification	V 1.1 , V2.0 compatible
Spread Spectrum	Frequency Hopping Spread Spectrum (FHSS)
Security Provided	Pairing, Encryption, Authentication
Operation Temperature	-20 ~ +50 Degree °C
Profiles support	A2DP(Advanced Audio Distribution Profile), AVRCP(Audio Video Remote Control Profile), HS/HF(Headset/Hands-free profile), BIP(Basic Imaging Profile), PAN(Personal Area Networking Profile), HID(Human Interface Device Profile), HCRP(Hardcopy Cable Replacement Profile), SPP(Serial Port Profile), Dial-Up Network Profile, Fax Profile, FTP(File Transfer Profile), LAN Access Profile, Synchronization Profile, Object Exchange Profile

## USB Pin Description (Wire to board connector) :



Pin Name	NO	I/O	Description
+5V	1	---	Vcc
USB_D-	2	I	Asynchronous serial RTS/USB Data-
USB_D+	3	O	Asynchronous serial RTS/USB Data+
GND	4	---	Ground