



# Bluetooth USB Dongle BT410D

## General Description ►

### Interoperability

Devices that pass the Bluetooth™ qualification may communicate to each other. KINGENE Bluetooth™ USB Dongle can work with mobile phones, PDAs, headsets, printers, and many other Bluetooth™-enabled devices.

### Reliability

Bluetooth™ implements FHSS (Frequency Hopping Spread Spectrum) technology, which provides a highly reliable radio link in 10-meter range. Embedded ceramic chip antenna provides high-quality radio signal and less influence from environmental deviation.

### Security

56-bit encryption and Link Manager Authentication means Bluetooth™ devices are identified by the unique 48-bit BDA (Bluetooth™ Device Address) and PIN, and pairing must be accomplished before any connection made. So user can exchange information securely.

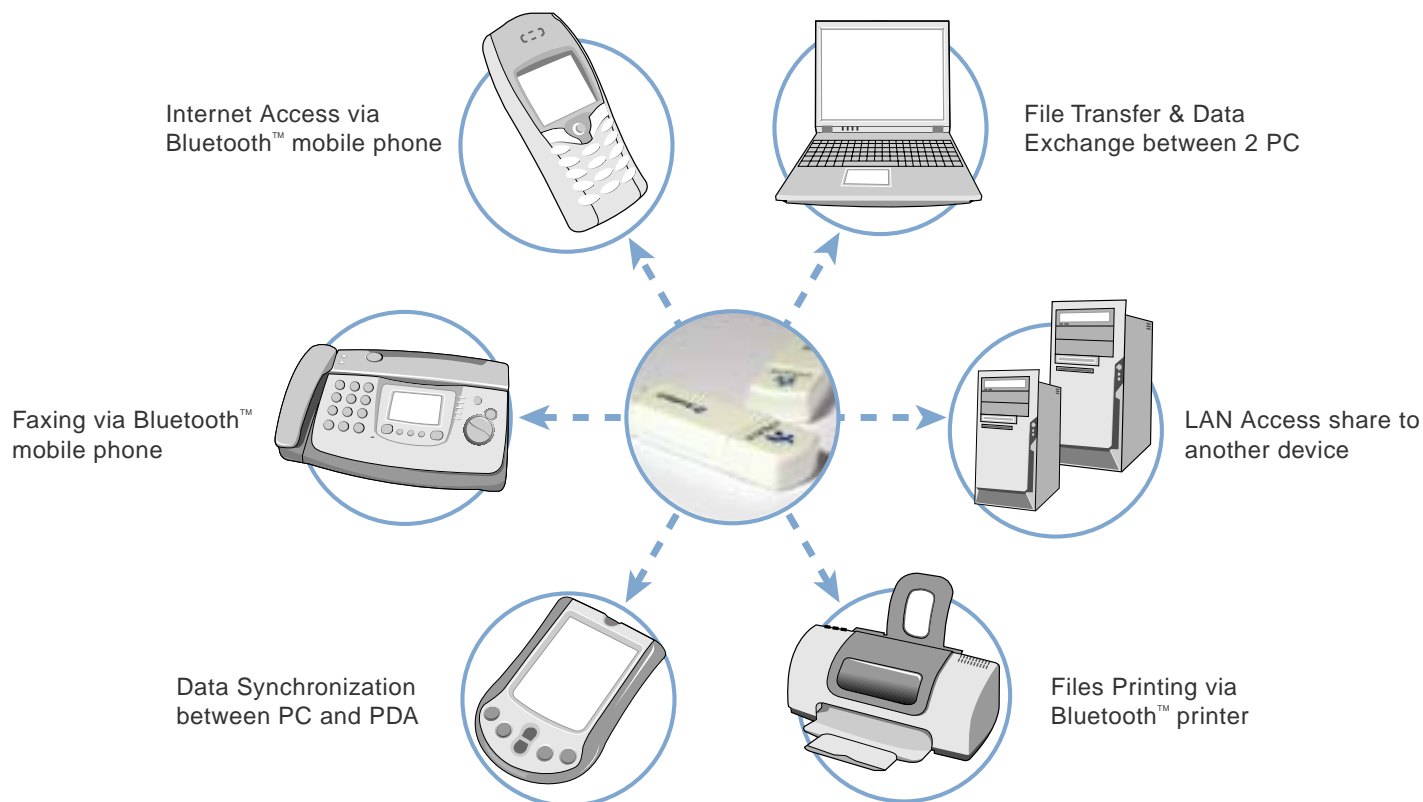
### Simplicity

KINGENE Bluetooth™ USB Dongle is USB 1.1 Plug and Play compatible. Just plug the Dongle into USB port of your notebook or desktop PC, Windows will find the necessary driver and install it. The process is point-and-click simple.

## Feature ►

- Bluetooth™ V.1.1 compliant
- Bluetooth™ class 2 device, communication range up to 10 meters
- Support point-to-point and point-to-multipoint operation
- Built-in 4Mb flash memory for firmware upgrade
- LINK Indicator LED
- Bundled WIDCOMM's Windows Bluetooth™ 1.1 protocol stack and profiles:
  - Generic access profile
  - Synchronization profile
  - Dial-up network profile
  - Headset profile
  - File transfer profile
  - Service discovery app profile
  - Object push profile
  - Serial port profile
  - Generic object exchange profile
  - LAN access profile
- Support for Windows 98SE, ME, 2000, XP and MAC OS
- Easy-to-use interface, including shell extensions and system tray

## Application Diagram ►



## Specification ►

Power Supply	
Power Supply	Power Supply 5.0VDC USB bus-powered
Operation Voltage	1.8V for core logic and RF, 3.3V for flash memory
Power Consumption (T=25°C)	Peak current in ACL data transfer 720Kbps = 55mA Peak current in SCO HV1 connection = 60mA Stand by current = 100µA
RF Characteristics	
Max Radio Output Power	4dBm (Bluetooth™ Spec. 1.1 class 2 device)
Receiver Sensitivity	-80dBm (Single slot BER ≤0.1%)
Frequency Range	2402 -2480MHz, in 2.4GHz license-free ISM band
Carrier Frequency Drift	≤±25KHz (Single slot packet)
Antenna	
Type	High-performance solid-state LTCC chip DRA(Dielectric Resonance Antenna)
Impedance	50 ohm
Gain	0-2 dBi
VSWR	2 max
Polarization	Linear
Azimuth Beamwidth	Omni-directional