

# Bluetooth Data AP Specification

|              |                             |
|--------------|-----------------------------|
| Product Name | Bluetooth Data Access Point |
| Product ID   | KA2DBT900AP                 |

## 1. PRODUCT GENERAL INFORMATION

### 1.1 Product Description

The Bluetooth wireless data access point is fully compatible with the Bluetooth specification v1.1 and based on the Frequency Hopping Spread Spectrum Technology. The AP enables to be connected to PCs for data connections.

The user manual will guide you to establish the data connection between data access point and PC or PDA .

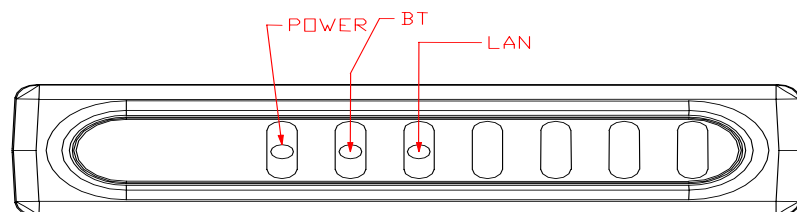
## 2. PRODUCT GENERAL

### 2.1 General Specifications

Standards: Bluetooth specification v1.1 compliant

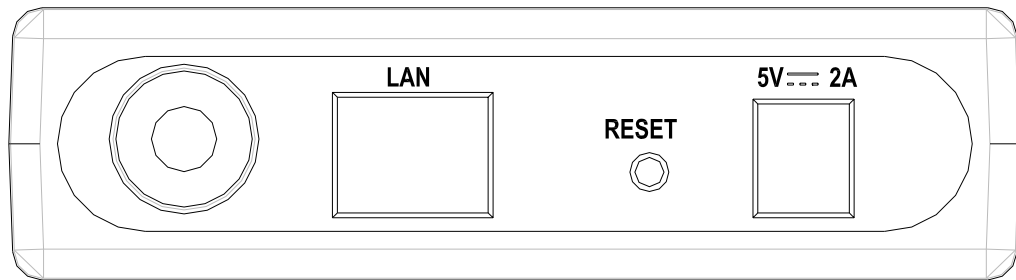
Connect devices: PCs or PDAs that support Bluetooth PAN profile

Dimension: 104x63x28mm



## 2.2 LED Indicators

| Symbol | Functions        |
|--------|------------------|
| POWER  | Red for Power On |
| BT     | Green Flash      |
| LAN    | Green Flash      |



## 2.3 Interfaces

| Symbol  | Functions               |
|---------|-------------------------|
| POWER   | Power Jack              |
| RESET   | AP reset/Pairing        |
| LAN     | 10/100 Ethernet line IN |
| Antenna | External Antenna        |

## 3. PRODUCT HARDWARE SPECIFICATION

### 3.1 RF specification

#### 3.1.1 General

|                   |                                            |
|-------------------|--------------------------------------------|
| Emission Type     | Frequency Hopping Spread Spectrum (FHSS)   |
| RF Frequency      | 2400-2483.5MHz Europe &USA (except France) |
| Bluetooth Chipset | CSR-BC02-external                          |

#### 3.1.2 Transmitter

|                   |                                        |
|-------------------|----------------------------------------|
| RF Output Power   | -6 ~ +4dBm (class 2)                   |
| Modulation type   | GFSK (Gaussian Frequency Shift Keying) |
| Frequency Hopping | 1600hops/sec (625us/hop)               |

### 3.1.3 Receiver

Receiving Sensitivity      -76 ~ -80dBm (class 2) BER 10E-3

### 3.1.4 Antenna Type

Antenna Type                  Dipole Antenna  
Antenna Gain                  2dBi (Typically)

## 3.2 Hardware Specification

### 3.2.1 CPU

Processor                      ATMEL

### 3.2.2 Memory

SRAM                            4Mbits  
FRESH                           4Mbits

### 3.2.3 Power Adapter

Power Voltage                  DC 5V/1A, AC Adapter AC100V-240V

### 3.2.4 Bluetooth Module

GL2BMU02                    class 2

## 4. INSTALLATION AND CONFIGURATION

### 4.1 Hardware Setup

If you are the first time using this data access point, please follow the below steps to set up hardware appropriately.

4.1.1 Power on data access point by plug in 5V adapter.

4.1.2 Plug in 10/100T Ethernet Lines

4.1.3 Place data access point with appropriate position with no obstacle that effects radio performance.

4.1.4 Adjust Antenna for best transmitting/receiving signals.

### 4.2 Power On/Off

4.2.1 Plug in 5V adapter that already connect to power jack, then Red light of POWER indicator shows power on.

4.2.2 BT workable Green LED flash indicates the Bluetooth function workable.

4.2.3 Plug off 5V adapter, POWER and BT workable LED turn off shows power off.

## **5. WIRELESS INTERNET ACCESS – DATA CONNECTION**

### **5.1 Hardware connection**

- Plug in Ethernet line to **LAN** ports. **LINK** Green LED light flash. If **LINK** LED doesn't flash, please check Ethernet line is connected appropriated.
- **LINK** LED light flash, now you are able to connect your portable NB/PDA to this access point wirelessly for Internet access.

### **5.2 Establish wireless connection from your NB to data access point via PAN profile (NOT LAN profile)**

**CAUTION:** You can find much Bluetooth application software that can be installed into your PC/NB to communicate with any Bluetooth device. As long as the software supported PAN profile, then your PC/NB can communicate with GST Data AP. However, in order to avoid interoperability issue, we strongly recommend you to choose either IVT BlueSoleil or Widcomm BTW software to install. Global Sun Technology Inc validates these two software.

- Please insert Bluetooth software with PAN profile under Windows operation systems into CD-ROM, the installation program will auto setup, please follow the installation wizards to complete the processes.

### **5.3 Reset**

When the Data Access point work abnormal no matter is hardware or software problem. You can press the reset button to restart the AP and connected it by PC/NB or PDA again.

### **5.4 Other things need to be noticed.**

- The default PIN CODE is **“root”**
- The product is a Access Point which does not include Router functions
- This Access Point only support PAN profile, NOT LAN profile.
- The AP allows maximum 7 Bluetooth enabled NB or PDA to request services.
- Due to bandwidth consideration, we strongly suggest you only have 3 NB or PDA to connect to the AP for achieving the best performance. Otherwise, you might suffer the low speed Internet access.