



## Bluetooth Class1 Dongle Specification Preliminary

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>Product Name</b>     | <b>GST class 1 Bluetooth Dongle</b> |
| <b>Product ID</b>       | <b>GL2BDG91</b>                     |
| <b>Hardware Version</b> | <b>Rev.01</b>                       |

### FEATURE

- Comply with Bluetooth Specification V1.1
- Support Bluetooth Class1
- Built-in Link controller and Link Manager Protocol
- HCI interface over USB
- USB interface fits desktop/laptop PCs
- Compliant with USB 1.1 standard.
- Built-in flash memory 、 system clock .
- Easy to use-makes wireless networking simple.
- Easy to follow-friendly user interface provides an easy way to connect other Bluetooth devices .

### APPLICATIONS:

Notebook 、 PCs

### FCC Notices

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

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

“FCC RF Exposure requirements:

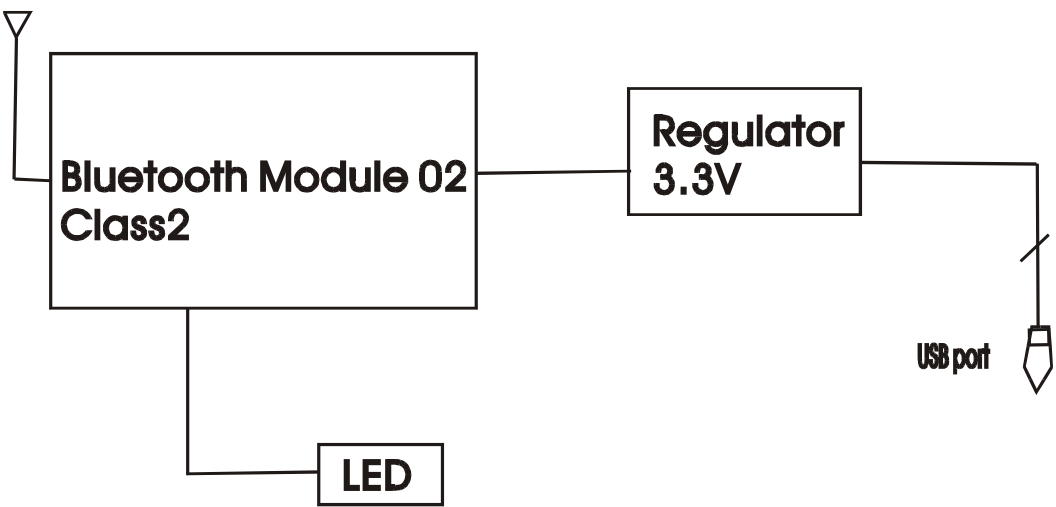
This device and its antenna(s) must not be co-located or operation in conjunction With any other antenna or transmitter.”

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## Hardware Specification

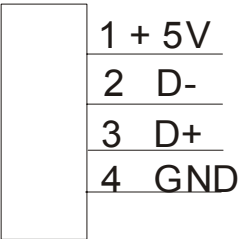
| ITEMS                     | SPECIFICATION                                                            |
|---------------------------|--------------------------------------------------------------------------|
| Standard                  | Bluetooth V 1.1                                                          |
| Interface                 | USB(Type A)                                                              |
| Link Mode                 | ACL,SCO                                                                  |
| Data Rate                 | ACL:723.2kbps/SCO:57.6kbps                                               |
| Frequency Band            | 2.4GHz                                                                   |
| Compatible OS             | Microsoft Windows 98 / 2000 / ME / XP                                    |
| Bluetooth Profile support | GAP, SPP, FTP, DUN, LAP, OPP, GOEP, SYNC, FAX, PAN, HCRP, Audio/Headset. |
| Receiving Signal Range    | Better than -75dBm @ 0.1%FER                                             |
| Operation current         | 155mA(max)                                                               |
| Operating Distance        | Up to 70 meters                                                          |
| Output Interface          | USB                                                                      |
| Operation Temperature     | -0 °C ~ +55°C                                                            |
| Storage Temperature       | -20 °C ~ +70°C                                                           |
| Operation Humidity        | 0% to 70%                                                                |
| Storage Humidity          | 0% to 95% Non-condensing                                                 |
| Modulation                | GFSK(Gaussian Frequency Shift Keying)                                    |
| USB Specification         | Ver 1.1                                                                  |
| Spectrum                  | FHSS(Frequency Hopping Spread Spectrum)                                  |
| Security Provided         | Pairing,Encryption,Authentication                                        |
| Dimension                 | 59.57mm x 19.83mm x 13.86                                                |
|                           |                                                                          |

# GL2BDG91 Block Diagram



*GST Confidential*

## Pin Description (Wire to Board connector)



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