

互億科技
Billionton Systems Inc.
Technical spec.

PROJECT: GUBTCR41J

DATE: 2008/8/14

Version: V1.0

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Introduction

This is a Bluetooth USB Dongle with class 1 output power. It uses CSR BC04-ROM single chip Bluetooth IC and is Bluetooth v2.1+EDR specification supported, and works on 2.4GHz ISM Band.

It works with notebook and desktop PCs. Simply plug it into notebook or desktop PCs' USB connectors; you can then use the many profiles provided and communicate with other Bluetooth devices without the tangle of cables. It will empower your information application with more mobility.

1. Functional Description

- Bluetooth v2.1+EDR compliant
- Full speed USB v2.0 Interface
- Wireless communication can reach a radius of 100 Meters
- Connect up to 7 different enabled Bluetooth devices
- Encryption and authentication ensure safe, secure communications
- Low power consumption

2. Specification

3.1 Interface:

- USB Version 2.0 compliance

3.2 Functions:

- Main chip: CSR BlueCore 04 ROM
- Bluetooth 2.4GHz~2.4835GHz license-free ISM Band frequency hopping
- Connections within ranges up to 328 feet (100 Meters in open site) (Distance varies depending on actual environment)
- Connects up to 7 BT devices in a Piconet
- Data rate: 2~3Mbps (theoretical)
- Class 1 Bluetooth radio
- RF module sensitivity : < -79dBm
- Security: encrypted link, authentication
- Bluetooth profiles support includes:

Generic access profile (GAP),	Serial port profile (SPP),
Service discovery app profile (SDAP),	Generic object exchange profile (GOEP),
Object push profile (OPP),	File transfer profile (FTP),
Dial-up network profile (DUN),	LAN access profile (LAP),
Fax profile (FAX),	Headset Profile
Human Interface Device(HID)	Personal Area Network(PAN)

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3.3. Mechanical

Dimension: 24.8 x 13.5 x 4.5 mm
(L x W x H)

3.4. Certification

3.5. Environmental Operating Ranges

- Operating Temperature : 0 ~70° C , Humidity 10 ~ 90%
- Storage Temperature : -20~90° C, Humidity 10 ~ 90%

3.6. Power Consumption

- Typical: 81.6mA/5V
- Maximum: Transmit : 112.5mA/5V (peak),
Receive : 50.3mA/5V (peak)
(Varies depending on use environment)
- Idle: 14.8mA/5V

3.7. LED Indication

RX indicator

3.8. Drivers support

Microsoft Windows 98SE, Windows ME/2000 /XP, MAC OS 10.2 or above

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