

Billinton Systems Inc.

PROJECT: USBBTC2-X

DATE:

Version: 1.1

PAGE: 1/2

1.Introduction

This product is a Bluetooth USB Dongle with class 2 output power. It uses CSR BC02 single chip Bluetooth IC. The adapter supports Bluetooth v1.1 specification, works on 2.4GHz I SM Band. It got a very small size.

Bluetooth is a technique to replace cable and with a low power consumption feature. It can work on Notebook PC. Plug it into Notebook PCs' USB connectors; you can use many profiles with the other Bluetooth devices without cables. It will make your information application with more mobility.

2.Functional Description

- Bluetooth v1.1 compliance
- Full speed USB v1.1 Interface
- Wireless communication within a radius of 20 Meters
- Connect up to 7 different enabled Bluetooth devices
- Encryption and authentication ensure safe, secure communications
- Low power consumption
- Internal chip antenna

3. Specifications

3.1 Interface:

- USB Version 1.1 compliance

3.2 Functions:

- Main chip : CSR BlueCore 02
- Protocol : Bluetooth 2.4 GHz ISM band frequency hopping
- Connections within ranges up to 20 meters
(Varies depending on use environment)
- Connect up to 7 devices in a Piconet
- Data Rate : 723 kbps
- Antenna: Integrated inside the adapter
- Class 2 bluetooth radio
- RF module sensitivity : -80dbm at 0.1% Bit Error Rate (BER)
- Security : encrypted link, authentication

Approval By:		Prepared By:	
-----------------	--	--------------	--

Billinton Systems Inc.

PROJECT: USBBTC2-X

DATE:

Version: 1.0 PAGE: 2/2

- 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),	ActiveSync
Personal Area Network(PAN)	Human Interface Device(HID)
Hard Copy Cable Replacement(HCRP)	

3.3. Mechanical

Dimension: 43.2x 19.7 x 7.7 mm (L x W x H)

3.4. Certification

EMC/EMI: FCC part 15 class B, CE(CISPR22 class B),BQB

3.5. Environmental Operating Ranges

- Operating Temperature : 0 ~55° C , Humidity 10 ~ 90%
- Storage Temperature : -20 ~90° C, Humidity 10 ~ 90%

3.6. Power Consumption

- Typical: 60mA/5V
- Maximum: Transmit : 60.4 mA/5V (peak), Receive : 69.6mA/5V (peak)
(Varies depending on use environment)
- Idle: 6.3mA/5V

3.7.LED Indication

Yellow : Active

3.8.Drivers support

Microsoft Windows 98SE, Windows ME/2000 /XP, Mac OS X v10.1.4 or v10.1.5 and Mac OS X v10.2.

Approval
By:

Prepared By:

No. : **BRP-001-11** Version : **C.0**