

CB008796/93 Virtual COM USB-RS232 over Bluetooth

Features

- USB-RS232 conversion
- Virtual COM port device driver
- Wireless connection
- Bluetooth Class 1 Radio
- Integrated antenna
- Data encryption
- Automatic Bluetooth connection
- LED indicators
- Configuration via USB
- Power from RS232 port or USB port



Specifications

Bluetooth	Bluetooth v2.1 + EDR Class 1 Radio
USB	USB specification 2.0 compliant USB full speed 12Mbps transmission USB type A plug connector
RS232	Connector: DB9 male/female Baud rate: 1200bps to 115200bps Parity: Even, Odd, None Data length: 8-bit Stop bits: 1-bit, 2-bit
Power	USB adapter: bus-powered, idle 19mA, normal 45mA, maximum 100mA. RS232 adapter: 3.6v to 5v 100mA DC via DB9 pin 9 or USB Micro-B port
Part Number	CB008796 DB9 male CB008793 DB9 female
Software	32-bit and 64-bit virtual COM port device driver for Microsoft Windows 8, Windows 7, Windows Vista, Windows XP.

Device Driver Installation:

The software package is supplied in a compressed folder file named *USB_COM_1P_Driver* or a CD. Here are the installation steps.

1. If you have file *USB_COM_1P_Driver*, rename *USB_COM_1P_Driver* to *USB_COM_1P_Driver.zip*, extract all files to a file folder on your local disk or USB drive, double click *setup.exe* to start software installation.
2. If you have the software CD, insert the software CD into your computer's disc drive, the software installation will start automatically.
3. Follow the on-screen instructions until the setup wizard finishes.
4. Plug USB-Bluetooth adapter to the computer's USB port.
5. Follow the on-screen instructions if any to complete the software installation.

System Requirements

Configuring CB008796/93 adapters on a PC requires:

- Microsoft Windows 8, Windows 7, Windows Vista, or Windows XP.
- eeTerminal (download from www.devicefunctions.com).

Contents

CB008796	One C008723 USB-Bluetooth adapter, one B102496 Bluetooth-RS232 adapters
CB008793	One C008723 USB-Bluetooth adapter, one B102493 Bluetooth-RS232 adapters

DEVICE FUNCTIONS

LED Indicator - Bluetooth connection

Status	LED Flash Rate
Connected	Solid ON
Waiting for Connection	Once per second
Configuring	10 times per second

DB9 Connector Pin Descriptions

Pin #	DB9 Male Connector	DB9 Female Connector
1	1 - 4 - 6	1 - 4 - 6
2	Rx	Tx
3	Tx	Rx
4	1 - 4 - 6	1 - 4 - 6
5	GND	GND
6	1 - 4 - 6	1 - 4 - 6
7	7 - 8	7 - 8
8	7 - 8	7 - 8
9	3.6v to 5v input	3.6v to 5v input

Pin9 is internally connected with USB micro-B pin1.

USB Micro-B Receptacle Pin Descriptions

Pin #	Micro-B Receptacle
1	3.6v to 5v input
2	NC
3	NC
4	NC
5	GND

Pin1 is internally connected with DB9 pin9.

Power Up

First, power on Bluetooth-RS232 adapter, then power on USB-Bluetooth adapter. The Bluetooth LEDs will be solid on in a while. If Bluetooth LEDs keep flashing, the two devices need to be paired.

Configuration

Start eeTerminal, power on Bluetooth-RS232 adapter, plug USB-Bluetooth adapter in a PC's USB port. Wait until LEDs are solid on. **You have 60 seconds to start configuration after power on.** If the two devices are not paired, the LEDs are flashing. You need to pair the devices first.

Step 1 Start configuration

Click *File* from eeTerminal's menu bar and click *Open Device*. A *Select Device* window, Fig 1, will popup with a list of devices.

Select the COM port assigned to this USB-Bluetooth adapter. The COM port has "Bluetooth" in its name. Click *Configure* button. The *Bluetooth Settings* window, Fig 2, will popup in a few seconds.

DEVICE FUNCTIONS

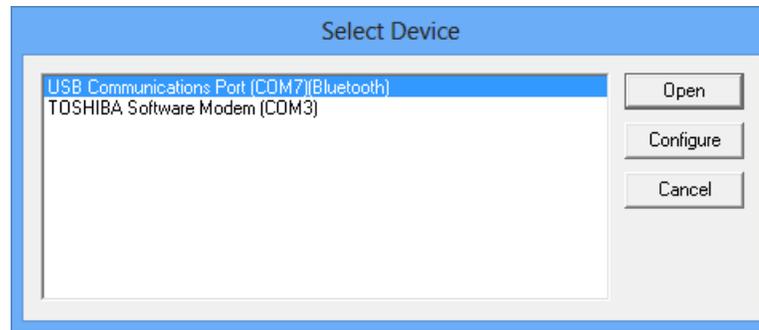


Fig 1

Step 2 Configure Bluetooth adapter

- Encryption support is always enabled. The paired device must also support link encryption in order to set an encrypted connection.
- Authentication pin code is 1234. Authentication is turned off by default.
- RS232 settings. Set baud rate, parity, and stop bits.
- Device Pairing. In order to make a Bluetooth connection, two Bluetooth devices must be paired. Click *Add New Device* button. Visible Bluetooth devices in range will be listed in a few seconds. You may need to click *Add New Device* multiple times to find Bluetooth devices. Select a Bluetooth device and click *Pair* button.
- Device Unpairing. Click *Unpair* button if enabled to erase pairing information.

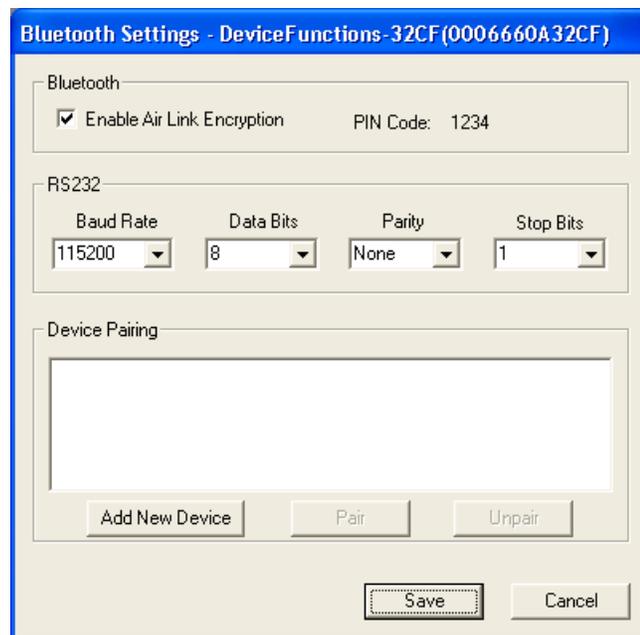


Fig 2

Step 3 Save Bluetooth adapter's settings

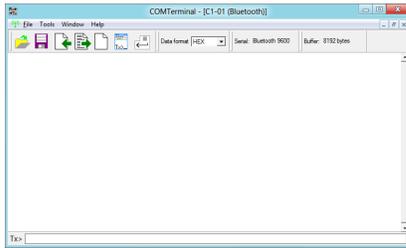
Click *Save* button to save new settings or click *Cancel* button to cancel any modification. The new settings will take effect immediately once saved.

Step 4 Power off remote Bluetooth-RS232 adapter. Wait until USB-Bluetooth adapter's LED starts blinking. Repeat Step1 to Step 3 to configure USB-Bluetooth adapter.

DEVICE FUNCTIONS

Accessories

eeTerminal Configure, read, and write Bluetooth adapters. Upload/download files.



Environmental Conditions

Operating temperature range	0°C TO +55°C
Storage temperature range	-20°C TO +70°C
Relative humidity	0% to 90%, non-condensing

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