B102496/3 Bluetooth RS232 Adapters

Features

- Bluetooth pairing and unpairing tools
- Integrated antenna
- Bluetooth Class 1 Radio
- Data encryption
- Automatic Bluetooth connection
- Support Microsoft Windows Bluetooth COM port
- RS232 interface in DB9 male or female
- LED indicator
- Configuration via Bluetooth or USB
- Power from RS232 port

Specifications

Bluetooth Bluetooth v2.1 + EDR Class 1 Radio 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	3.6v to 5v 100mA E	OC via DB9 pin 9
Part	B102496	DB9 male

Number B102493 DB9 female

Typical Applications

1. RS232 Extension over Bluetooth

Pair with your Bluetooth (SPP) enabled devices App 1

Follow Device Pairing instruction to pair this adapter with your Bluetooth enabled device. The paired Bluetooth devices will connect automatically. You can access your Bluetooth enabled device remotely via Bluetooth adapter's RS232 port.

Pair two Bluetooth adapters App 2

Follow Device Pairing instruction to pair the two adapters. The paired adapters will connect automatically.

2. Microsoft Windows Virtual COM Port over Bluetooth

Power on Bluetooth adapter. Locate Bluetooth icon 🕺 on Microsoft Windows taskbar. Click on it and select Add a Bluetooth Device. Follow Microsoft Windows on-screen instructions to install the device. The authentication pin code is 1234. A virtual COM port (Outgoing direction) with SPP description will be created. To check the COM port number, click 🚺 on Windows taskbar and select *Open (Bluetooth)* Settings. Click COM Ports in Bluetooth Settings window.

System Requirements

Configuring Bluetooth adapters on a PC requires:

- Microsoft Windows 8, Windows 7, Windows Vista, or Windows XP.
- eeTerminal (download from www.devicefunctions.com).
- Bluetooth connection to PC or USB adapter H0087135M/F.



DEVICE FUNCTIONS

LED Indicator - Bluetooth connection

Claire	
Status	

Connected Waiting for connection Configuring LED Flash Rate

Solid on Once per second 10 times per second

DB9 Connector Pin Descriptions

Pin #	DB9 Male Connector	DB9 Female Connector
1	1 - 4 - 6	1 - 4 - 6
2	Rx	Тх
3	Тх	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

Serial Port Configuration and Bluetooth Pairing

Configure via Bluetooth

You have 60 seconds to start configuration via Bluetooth after power on. Start eeTerminal, then power on Bluetooth adapter. Bluetooth connection to PC is required.

Step 1 Start configuration

Select Device	
Standard Serial over Bluetooth link (COM6) TOSHIBA Software Modem (COM3) DeviceFunctions-42F1 (Bluetooth)	Open Configure Cancel

Fig 1

Click *File* from eeTerminal's menu bar and click *Open Device*. A *Select Device* window, Fig 1, will popup in a few seconds with a list of devices. You may need to repeat this process until your Bluetooth adapter is found. Turn off Bluetooth adapter then turn on if 60 seconds passed.

Select your Bluetooth device from the device list and click *Configure* button. A *Bluetooth Settings* window, Fig 2, will popup in a few seconds. If there is no *Bluetooth Settings* window, more than 60 seconds have passed from power on. Turn off Bluetooth adapter and start from beginning.

Bluetooth Settings - DeviceFunctions-32CF(0006660A32	CF)
Bluetooth FIN Code: 1234	
RS232 Baud Rate Data Bits Parity Stop Bi 115200 💌 8 💌 None 💌 1	ts •
Device Pairing	_
Add New Device Pair Unpair	
[Save]] Car	icel
Fig 2	

- 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. You may need this code when pairing with other devices, such as PC.
 - RS232 settings. Set serial port's 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. NOTE: You can only unpair this adapter using USB adapter H0087135 after you save the pairing information.
 - Device Unpairing. Click *Unpair* button if enabled to erase pairing information.
- Step 3 Save Bluetooth adapter's settings

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

Configure via USB

You can start configuration via USB at any time when Bluetooth adapter is not connected (The LED is flashing). USB adapter H0087135 is required. If you use Windows XP, you can only configure Bluetooth adapters via USB. **Make sure ONLY one of the PAIRED Bluetooth devices is powered on at a time.**

Step 1 Start configuration

Plug H0087135 in your PC's USB port. Connect Blueooth adapter with H0087135. The Bluetooth adapter will be powered on via DB9 pin9.

Start eeTerminal. Click *File* from eeTerminal's menu bar and click *Open Device*. A *Select Device* window, Fig 3, will popup with a list of devices.

Select *Device Functions Bluetooth RS232 Adapters* from the device list and click *Configure* button. The *Bluetooth Adapter Serial Port Settings* window, Fig 4, will popup. If you have Bluetooth adapter's RS232 settings, select the settings and click *Ok* button. If you don't have the information click *Auto Baud* button.

	elect Device
TOSHIBA Software Modem (COM3) Open Device Functions USB RS232 H0087135 Configure Configure Cancel	135 dapters Configure

Fig 3

After H0087135 establishes communication with the Bluetooth adapter, a *Bluetooth Settings* window, Fig 2, will popup.

Bluetooth Adapte	r Serial Port		
Current Settings			
Baud Rate	Data Bits	Parity	Stop Bits
	Auto Baud	OK	Cancel
	Fia 4		

Step 2 Configure your Bluetooth devices

Refer to Step 2 in *Configure via Bluetooth.* Step 3 Save your Bluetooth device's settings

Refer to Step 3 in Configure via Bluetooth.

Accessories

eeTerminal

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



USB Adapter H0087135M/F

Configure Bluetooth adapters



Environmental Conditions

Operating temperature range	-20℃ TO +65℃
Storage temperature range	-40 ℃ TO +85 ℃
Relative humidity	0% to 90%, non-condensing

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