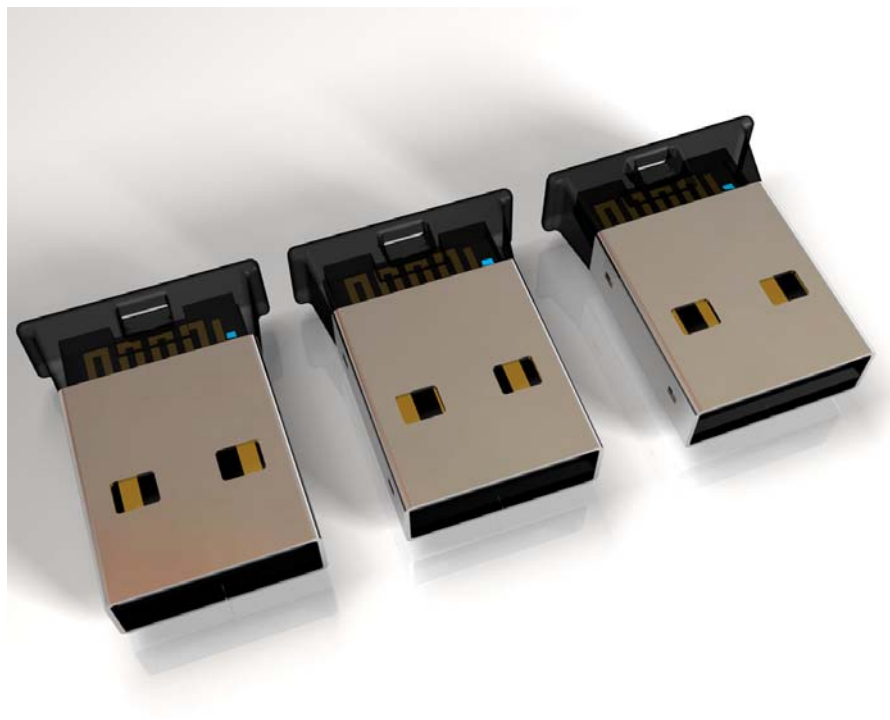# Class2 USB Bluetooth adapter

User's Manual

(GUBTI2I)

Billionton Systems, Inc.

Blue Manager Suite for Windows

Blue Manager Suite is a Bluetooth communication application that helps you easily manage and interact with your wireless personal area network (WPAN) and remote Bluetooth devices including mobile phones, modems, and access points. Use Blue Manager to do the following:

- Find and connect to remote devices, and see the services they can provide

- Browse folders and files on remote devices, and exchange files with them

- Use wireless dial-up networking and serial-based functions

To get started, see these topics.

- Blue Manager Suite Main Screen

- Configuring Blue Manager Suite

- Performing Common Operations

- Understanding Bluetooth Profiles

Blue Manager Suite Main Screen

Blue Manager's main screen provides easy-to-use controls for the application.

Note: The controls throughout Blue Manager operate much as in other Windows applications. If you aren't familiar with Windows navigation controls, see Windows Help for details.

The screen's menu bar includes the following:

- **Application** provides commands for opening your Bluetooth Inbox (see Object Push Settings), configuring the application, and exiting.

- **View** commands control the application's appearance, and let you discover Bluetooth devices.

- **Help** commands open this online help, and provide product and support information.

The main screen also includes a toolbar with buttons providing the above and additional functions. (If the toolbar is not visible, select the **View** menu and make sure **Toolbar** is checked.) Hold the mouse over the buttons to see their functions in tooltips and in the status bar. Some toolbar buttons will not appear until a device is selected.

- **Bluetooth Inbox**
  Opens your Bluetooth Inbox folder. (Also available through the **Application** menu.)

- **Configuration**
  Opens the Configuration dialog, which enables you to control many of the application's functions. (Also available through the **Application** menu.)

- **Device Discovery**
  Discovers Bluetooth devices within range. (Also available through the **View** menu.)

- **Cancel Device Discovery**
  Cancels the attempt to discover devices.

- **Select View**
  Selects how items are displayed (icons or list) in the main screen's right-hand pane. (Also available through the **View** menu.)

- **Help**

  View this help file.

- **Device Filter**

  Filters the set of devices to be displayed. There are three options:

  - **Show Only Discovered Devices**

    Shows only those devices found in the most recent discovery. No other devices are displayed.

  - **Show My Devices**

    Shows recently discovered devices, all connected devices, and all paired devices.

  - **Show All Known Devices**

    Shows all devices ever discovered or connected.

- **Name Discovery**

  Discovers the name of the selected device (in case this was not found when the device was discovered).

- **Service Discovery**

  Discovers and discovers the services available through the selected remote device. Also displays the remote device name (if any).

- **Cancel Service Discovery**

  Cancels the attempt to discover device services.

- **Pair Device**

  Pairs the selected device.

- **Disconnect**

  Ends the connection to the remote device.

- **Device Properties**

  Displays the properties of a selected device.

- **Delete Device**

  Deletes a device from the main screen. This also removes it from use by the local device. (**Note:** deleting a device does not remove its paired status.)

Many of these functions are also available through a context menu by right-clicking items in the main screen.

Configuring Blue Manager Suite

Use the Configuration dialog to customize the behavior of Blue Manager and the local device (computer, PCA, or PDA) running it.

Click the Configuration button, or select **Application > Configuration**. The dialog includes these settings windows:

- [Blue Manager Settings](#)

- [Local Device](#)

- [Bluetooth Security](#)

- [Profile Manager](#)

- [Shared Folders](#)

- [Object Push](#)

- [Audio](#)

- [Basic Imaging](#)

- [Personal Area Networking](#)

Blue Manager Settings

Use the Blue Manager Settings window to control how the application handles device inquiries.

Bluetooth Device Discovery Options

- **Bluetooth Device Inquiry On Startup:** automatically searches for devices when the application starts.

- **Discover Bluetooth Device Names After Inquiry:** finds and displays the names of devices (if names were given) after performing an inquiry.

- **Perform Bluetooth Device Inquiry Every n Minutes:** periodically searches for new devices.

Note: Selecting to discover names for all devices will make inquiries much slower.

Dialog and Message options

Use these to select certain messages and dialogs that appear throughout the application.

Local Device Settings

Use the Local Device settings window to control information seen by remote users about the device running Blue Manager.

- **Bluetooth Device Name:** the name used to identify the local device to remote users. Use a name that clearly identifies the local device.

Note: Changing the device name through Blue Manager changes *only* the name seen by Bluetooth applications.

- **Bluetooth Device Type:** use the pull-down menu to select the type of the local device as seen by remote users. This can help them determine if the device suits their needs.

- **My Bluetooth Device Address:** the unique character address of the local device, as determined by Blue Manager. This cannot be edited.

Bluetooth Security Settings

Use the Bluetooth Security settings window to set the security level of Bluetooth connections.

- **Require Bluetooth pairing for all links**
  When checked, Blue Manager will require pairing on all Bluetooth device connections.

- **Encryption**
  When checked, the radio will be instructed to encrypt all communications. This option is only available when "Require Bluetooth pairing for all links" is checked.

Profile Manager

Blue Manager supports a wide range of [Bluetooth profiles](#), and automatically assigns profiles according to device type in these situations:

- the first time the application is run (assigns profiles to the local device and devices connected to it)

- when devices are installed

- when devices are discovered

Use the Profile Manager window to view the available profiles, and the devices/services assigned to each.

You can also right-click to do the following:

- enable or disable the service

- uninstall the device

- scan for changes in installed services

- view properties for device services:
    - service type and name

    - Bluetooth device address

    - service status (enabled or disabled)

    - connection status

Shared Folders Settings

Use the Shared Folders settings window to set up folders to be accessed by remote users.

- **Allow Other Devices To Send Files And Folders To Your Shared Folders.** Enables Blue Manager to accept files and folders from remote devices and save them in shared folders on the local device.

- **Add Share.** Shares folders for access by remote users. Browse to select the folder. When prompted, rename the folder (if needed) and select read/write permissions for files and folders.

Note: Use caution when making an entire drive available for sharing. Keep in mind all files and subfolders that this would make available.

- **Remove Share.** Removes sharing permission from folders. Select a folder and click **Remove Share**.

- **Set Properties.** Sets read/write permissions for shared files and folders and the names of shared folders. Select a shared folder and click **Set Properties**.

Object Push Settings

Use the Object Push settings window to control receipt of certain files from remote devices.

- **Inbox.** Use this field to select a folder (usually on the local device running Blue Manager) to use as the Bluetooth Inbox. Any objects sent to your machine and accepted are automatically placed in this folder.

- **Allow other devices to send objects to this computer.** Allows devices to send objects to the local device. Disable this to make the Bluetooth Inbox unavailable to remote devices.

- **Prompt before accepting incoming objects.** Sets Blue Manager to notify you when an object is being sent to your computer. You can then accept or reject the object.

- **Include Outlook Contacts.** Uses Outlook contacts for Object Push business card operations.

- **Include Outlook Express Address Book.** Uses the Outlook Express Address Book for Object Push business card operations.

Audio Settings

Use the Audio settings window to control the following:

- **Handsfree Settings:** Review the current default headset service (if any), and select options for automatically switching the windows audio card when a handsfree connection is made.

- **A2DP Settings:** Select options for automatically switching the windows audio card when an A2DP (stereo headset) connection is made.

Basic Imaging Settings

Use this settings panel to control the Basic Imaging features made available to remote devices.

- **Allow other devices to exchange images with this computer**
  When checked, other devices can access Basic Imaging Responder features on your computer.

- **Image folder**
  Specifies the folder into which other devices can push or pull images.

Personal Area Networking Settings

Use this settings panel to control access to the Personal Area Networking features made available to remote devices.

- **Allow other devices to use Group Networking (GN)**
  When checked, other devices can access the local Group Networking adapter.

- **Allow other devices to use Network Access Point (NAP)**
  When checked, other devices can access the local Network Access Point adapter.

Performing Common Operations

Use the following to see how to perform basic tasks using Blue Manager.

- [Discovering Devices](#)

- [Viewing Device Properties](#)

- [Pairing with Devices](#)

- [Browsing Services](#)

- [Browsing Files and Folders](#)

- [Exchanging Business Cards (vCards)](#)

- [Exchanging Files with Remote Devices](#)

- [Using Bluetooth Serial Ports](#)

- [Using Dial-up Networking](#)

While using Blue Manager, keep in mind that most functions can be accessed by right-clicking a displayed item, as well as through the main menu and toolbar buttons.

Discovering Devices

Use Device Discovery to Bluetooth devices that are in range of the local device and in discoverable mode.

- Double-click in the right-hand pane in the [main screen](#).

- Select **View > Device Discovery**.

- Click the Device Discovery button.

Troubleshooting Tips

- Make sure the device is in range (the status shown in the [main screen](#) is a green dot) and in discoverable mode.

Viewing Device Properties

The Properties item displays the following properties of a selected remote device:

- **Name**

  Device's name if one has been provided, otherwise the device's address.
- **Address**

  Address assigned to the device.
- **Class**

  Type of the remote device, such as modem or desktop computer.
- **Status**

  Whether the device is in range, connected, trusted, and so forth.
- **Services**

  Types of services available on the remote device, such as Object Push or Dialup Networking.

Pairing Devices

Bluetooth devices sometimes require a "paired connection" for successful operation. When two devices are paired, they can automatically establish a secure Bluetooth link. To pair two devices, it may be necessary to enter a passcode.

To pair with a device:

1. Ensure the remote device is connectable and in "pairing mode" if necessary.

2. Right-click the device icon and select **Pair Device**

3. If prompted, enter the passcode. The same passcode should be selected on the other device.

When a device is paired, its paired status appears in the device's right-click menu in the main screen and in the device properties.

Troubleshooting Tips

- Make sure the device is in range.

- Make sure the you used the correct passcode, which needs to be entered the same on both devices.

- Devices without a user interface often have a fixed PIN of "0000".

Browsing Services

Bluetooth enables a range of functions such as transferring files, browsing folders, and dial-up networking. However, specific Bluetooth devices generally support only some of these functions.

Use Blue Manager to browse the services available through connected remote devices.

1. Right-click the device and select **Display Services**. Or, simply double-click the device.

2. Blue Manager will connect to the device and attempt to discover the services it supports. Supported services will appear in the right-hand pane.

3. Right-click on available services to connect, disconnect, or access other profile-specific features.

Troubleshooting Tips

- Make sure the device is in range and is configured to accept incoming connections.

- For faster service browsing, close connections with other Bluetooth devices first.

Browsing Files and Folders

Blue Manager enables you to browse shared folders on a remote device, and lets remote devices browse shared folders on the local device.

To browse a remote device's files and folders using File Transfer:

1. Click the device icon to see its available services. If no services are displayed, double-click the device to display its services.

2. Double-click the device's File Transfer service to connect to it. When connected, Blue Manager will display the list of files and folders available on the device.

3. To download a file, select it and click the "FTP Get File" toolbar button.

4. Once connected:

- o To upload a file, click the "FTP Send File" toolbar button and select the file to send.

- o To create a folder, click the "FTP New Folder" toolbar button and enter a folder name

- o To delete a file, select it and click the "FTP Delete File" toolbar button.

- o Long file operations can be cancelled by clicking the "FTP Cancel Transfer" toolbar button.

5. When you are done, right-click the device icon and select "Disconnect".

To allow a remote device to browse your files and folders using File Transfer:

Use the Shared Folders settings to add a folder to be shared. If you do not share any folders, the File Transfer service will not be advertised to other devices.

Troubleshooting Tips

- Make sure the device is in range (the status shown in the main screen is a green dot).

- Check properties on the selected device (right-click and choose **Properties...**) and make sure the device supports file transfer.

Exchanging Business Cards (vCards)

You can use Blue Manager to quickly exchange electronic business cards (vCards) with remote devices.

1. Configure your local Object Push Settings. An "inbox" folder must be selected.

2. Click the device icon to see its available services. If no services are displayed, double-click the device to display its services.

3. Right-click the device's Object Push service and select "Put Business Card". Blue Manager will allow you to select the business card you wish to send.

You can follow a similar procedure to get a business card from a remote device.

Troubleshooting Tips

- Make sure the remote device is in range and accepting connections.

- If a PIM such as Outlook or Outlook Express is selected in your Object Push Settings, be sure the PIM software is running when you initiate the exchange.

<u>Exchanging Files with Remote Devices</u>

Blue Manager enables you to exchange files between the local and remote devices. The sender always initiates the exchange. Files are placed in the "Inbox" on the receiving device.

To send a file to a remote device using Object Push:

1. Click the device to see its available services. If no services are displayed, double-click the device to display its services.

2. Right-click the device's Object Push service.

3. Select **Put File**.

4. Navigate to the file, and choose **Open**.

To receive a file from a remote device using Object Push:

1. Make sure **Allow other devices to send objects to this computer** is selected in the Object Push settings window.

   If you want to be prompted when a remote device is attempting to send a file, make sure **Prompt Before Accepting Incoming Objects** is selected in the Object Push settings window. Otherwise, files are automatically transferred to your Bluetooth Inbox.

2. Use the interface on the remote device to initiate the Object Push.

3. Click the **Bluetooth Inbox** toolbar button to see the transferred files.

Troubleshooting Tips

- Make sure the device is in range (the status shown in the main screen is a green dot).

- Make sure your device is not connected to anything else.

- Check properties on the selected device (right-click and choose **Properties...**), and make sure the device supports Object Push.

Serial Ports (Client and Server)

The Serial Port Client and Serial Port Server profiles (sometimes called "cable replacement") enable you to use a Bluetooth connection in place of a serial COM cable.

When the Blue Manager Suite is installed, the software also installs four Bluetooth COM ports: two for general serial port use (client and server), and two for dial-up networking (client and server). You can use these ports just as you would ordinary COM ports.

You can view the Bluetooth COM ports in the Profile Manager under Serial Port Servers, or in the Windows Device Manager under Ports.

- **To use a client port:** use Blue Manager to select a remote device, and connect to its serial port. After connecting, your applications can open and use the client port just like any other.

- **To use a server port:** open the server port from any application that uses serial ports. Remote devices with a serial port client can connect to the local device and communicate through this port.

Using Dial-up Networking

Windows enables you to create a Bluetooth dial-up networking (DUN) connection that you can use as with any other dial-up connection.

For detailed instructions, open Windows Help and Support, search for "Bluetooth DUN," and follow these points:

- You must have a BT-compliant DUN gateway device installed.

- Select **Bluetooth Modem – DUN** as the device to use.

- Use a maximum speed of 115200.

- Blue Manager must be running to use the connection.

Bluetooth Profile Overview

A Bluetooth "profile" is a collection of settings that defines standard communication methods and applications for a particular type of Bluetooth device.

Blue Manager supports the following profiles:

- [Human Interface Devices](#)

- [Serial Port Clients and Servers](#)

- [Dial-up Networking Devices](#)

- [Audio Sink and Source Devices](#)

- [Audio/Video Remote Control Devices](#)

- [Handsfree Units](#)

- [Object Push Clients and Servers](#)

- [File Transfer Clients and Servers](#)

- [Hardcopy Cable Replacement Printers](#)

- [Personal Area Network Devices](#)

- [Basic Imaging Initiators](#)

Troubleshooting

If you have trouble connecting to or using remote Bluetooth devices with Blue Manager, try these solutions.

- Your Bluetooth adapter must be plugged in and recognized by the Blue Manager software. When your adapter is recognized, the Bluetooth icon in the system tray will be blue or green. A gray icon indicates that Blue Manager cannot access any Bluetooth adapter.

- Make sure the remote device is turned on, has Bluetooth enabled, and is configured to allow incoming connections.

- Some devices must be paired before their services can be used.

- Make sure the remote device supports the service you are trying to use.

- For some profiles, you may need to disconnect other devices first.

- If a device you have used before does not appear in the main window, you may need to select the Show All Known Devices filter.

- In rare occasions, you may need to unplug and plug in the Bluetooth adapter and/or close and restart the Blue Manager applications to reset them.

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.

CAUTION: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.
--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help.

CAUTION:
Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning:
The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment also should be installed and operated with minimum distance 20cm between the radiator & your body.