



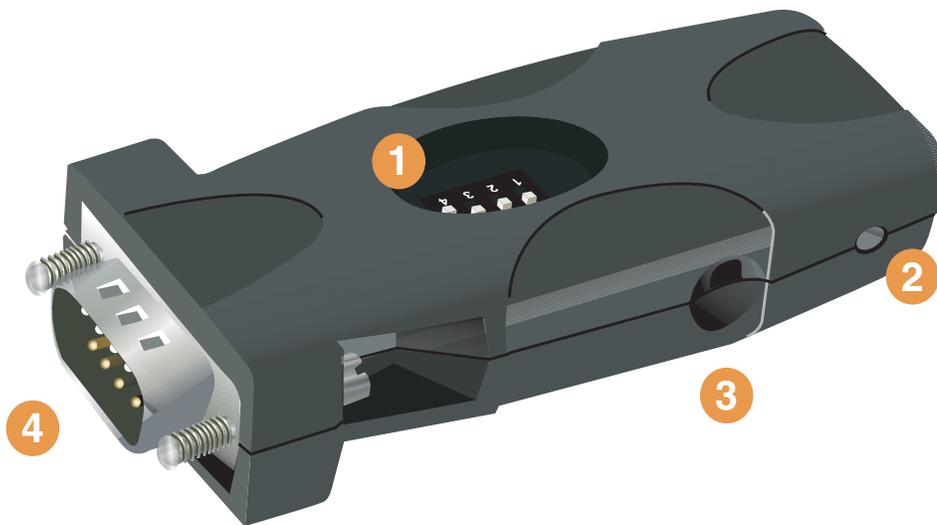
# Quick Start Guide

Bluetooth to Serial Adapter

GBS301  
PART NO. Q1229

# Introduction

1. DIP Switches
2. Status LED
3. Power Jack
4. RS-232 interface



## **Factory Settings**

When using the Bluetooth serial adapter with your serial devices, you must make sure that all the settings below match on both devices; otherwise, you may encounter problems communicating. Below are the factory default settings of this unit:

Encryption = disabled

Authentication = enabled

PIN key = 1234

Baud rate = selection from dip switch

Stop bits = 1

Parity = none

NOTE: If your serial device requires you to change any of the default settings, consult the Advanced Configuration section of the User Manual for more details.

## DIP Switches

Switches 1-3

DIP Switches 1, 2, and 3 are used to configure the baud rate.

**Table 1**

Switch 1	Switch 2	Switch 3	Baud Rate
ON	ON	ON	9600
OFF	ON	ON	19200
ON	OFF	ON	38400
OFF	OFF	ON	57600
ON	ON	OFF	115200
OFF	ON	OFF	230400
ON	OFF	OFF	460800
OFF	OFF	OFF	921600

NOTE: Most computer serial ports only support baud rate up to 115200. For higher baud rates, you may need to install a high-speed serial card in your computer. In addition, if you need to set a lower baud rate for your application, see the Advanced Configuration section in the User manual.

## Switch 4

DIP Switch 4 is used to set the serial adapter as master or slave:

Master mode: Switch 4 ON

Slave mode: Switch 4 OFF



### **Master Mode**

If you are interconnecting two LOGEAR Bluetooth adapters, you must set one of them to master and the other to slave.

### **Slave Mode**

Keep in mind that Bluetooth software applications (like Widcomm) will only be able to discover and connect to slave devices.

Therefore, if you are connecting this unit to a serial device to be accessed by a Bluetooth-enabled PC/PDA at the other end, make sure to set the LOGEAR Bluetooth serial adapter to slave mode.

# Basic Configuration

## Connecting Bluetooth serial adapter with Bluetooth-enabled device

The Bluetooth serial adapter has built-in dip switches for fast and easy configuration.

If you would like to change any of the default settings, consult the Advanced Configuration section in the User Manual.



## **Step. 1** ▼ **Set baud rate**

Using table 1, set the baud rate on the Bluetooth serial adapter by using the on-board DIP switches. Make sure that this baud rate matches with that used by your serial device.

If you are unsure what baud rate your serial device uses, please consult the manufacturer of that product.

## **Step. 2** ▼ **Plug in**

Plug in the Bluetooth serial adapter to your serial device. If your device has a male RS232 interface, use the included null modem adapter.

## **Step. 3** ▼ **Set device mode**

When using the Bluetooth serial adapter with a Bluetooth-enabled device (PC/PDA), you must set the Bluetooth serial adapter in slave mode (Switch 4 = Off).

## **Step. 4** ▼ **Power ON**

Plug in the power cable to your Bluetooth serial adapter; the blue LED will start blinking after approximately fifteen (15) seconds. Once the blue LED is blinking once every 2-3 seconds, this indicates that the Bluetooth serial adapter is in discovery mode; in other words, ready to accept a Bluetooth connection.



## **Step. 5** ▼ **Pair and Connect**

Use your Bluetooth software to search for Bluetooth devices in range. Once the Bluetooth serial adapter is detected, pair to it. If prompted for a PIN code, enter “1234” (without the quotes).

Once paired, establish a connection using the Bluetooth serial port profile (SPP). If you’re not sure how to do this, please consult the documentation for your Bluetooth hardware/software.

Once you have established a Bluetooth serial port connection, the blue LED will turn off. You’re done!

# Interconnecting two IOGEAR Bluetooth serial adapters

When using two IOGEAR Bluetooth serial adapters, there are two methods you can use to pair and connect them:

1. Auto-pairing
2. Back-to-Back

## Pairing Procedure

NOTE: If you have previously paired to the Bluetooth serial adapter(s), make sure to follow the unpairing procedure described in the User Manual before attempting to connect to a new device.

GBS301 connects to a printer serial port



GBS301 connects to a laptop serial port



—|—————|  
wireless signal  
330 ft range

### **Method 1** Auto-Pairing

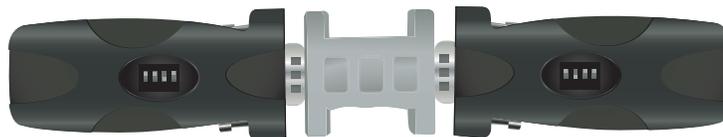
The Bluetooth serial adapter (master only) has the capability to search and automatically connect to another Bluetooth serial adapter (slave). Follow the steps below:

1. Set one serial adapter to Master (Switch 4 = On), and the other to Slave (Switch 4 = Off).
2. Set matching baud rates as needed
3. Power On both serial adapters and wait approximately fifteen (15) seconds
  - Blue LED on slave adapter will slowly blink (once every 2-3 seconds)
  - Blue LED on master adapter will rapidly blink
4. Wait approximately two minutes for the serial adapters to automatically pair and connect
5. Upon successful connection, the blue LED on both adapters will turn off and remain off
6. You're done!

NOTE: Once you have paired both Bluetooth serial adapters, if you turn them off, please allow approximately sixty (60) seconds when turning them back on to re-establish a connection.

## **Method 2** Back to Back Pairing

Follow this procedure to pair two (2) IOGEAR Bluetooth Serial Adapters.



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1. Make sure both Serial adapters are TURNED OFF
  2. Set one adapter as Master (Switch 4 = On), and the other as Slave (Switch 4 = Off)
  3. Make sure to set matching Baud rates on both serial adapters; else they will not be able to communicate.
  4. Connect the serial adapters back-to-back, using the included Null Modem adapter
  5. Power ON both Serial adapters
  6. Almost instantly, the Blue LED will light up and stay solid; this indicates successful pairing
  7. Disconnect both serial adapters and Power them OFF
  8. You may now connect each adapter to your desired serial device for communication
  9. Power ON both serial adapters, the blue LED will blink on both serial adapters indicating connection is in progress; which usually takes about sixty (60) seconds
  10. After successful connection is made, the blue LED on both serial adapters will turn off and remain off

NOTE: Once you have paired both Bluetooth serial adapters, if you turn them off, please allow approximately sixty (60) seconds when turning them back on to re-establish a connection.



## **Unpairing Procedure**

Any time that you want to pair the Bluetooth serial device with a new Bluetooth adapter/device, you must follow the unpairing procedure as indicated below.

There are two different methods that you can follow to unpair the Bluetooth serial adapter

### **Method 1**

1. Power OFF the serial adapter
2. Change the position of Dip Switch 4
3. Power ON the serial adapter. The LED will blink once, indicating successful unpairing.
4. Power OFF the serial adapter
5. Change dip switch 4 back to its original position
6. You can now pair the Bluetooth serial adapter with another device

### **Method 2**

If using two (2) IOGEAR Bluetooth serial adapters, follow the back-to-back pairing procedure indicated earlier; which will retain the latest pairing information

# Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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.

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.



FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



## **CE Statement**

This device has been tested and found to comply with the requirements set up in the council directive on the approximation of the law of member states relating to EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC and R&TTE Directive 99/5/EC.

# Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION EXCEED THE PRICE PAID FOR THE PRODUCT.

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The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or updates. For further inquiries please contact your direct vendor.

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## About Us



### FUN

ILOGEAR offers connectivity solutions that are innovative, fun, and stylish, helping people enjoy daily life using our high technology products.



### GREEN

ILOGEAR is an environmentally conscious company that emphasizes the importance of conserving natural resources. The use of our technology solutions helps reduce electronic waste.