

# SigFox

## USB Radio Data Transceiver

---

BlueTooth technology for your  
short to long range fast data applications



## User Guide

## DECLARATION

No part of this User Guide, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of **SigFox** Technology Co., Ltd.

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by Bluetake; or (2) the serial number of the product is defaced or missing.

**SigFox** provides this User Guide “as is” without warranty of any kind, either express or implied, including but not limited to the implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall **SigFox**, its directors, officers, employees or agents be liable for any indirect, special, incidental, or consequential damages (including damages for loss of profits, loss of business, loss of use or data, interruption of business and the like), even if **SigFox** has been advised of the possibility of such damages arising from any defect or error in this User Guide or product.

Products and corporate names appearing in this User Guide may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners’ benefit, without intent to infringe.

---

**Copyright © 2005 SigFox Technology**

**All Rights Reserved.**

---

Trademark(s)<sup>™</sup> and Registered Trademark(s)<sup>®</sup>

**SigFox** and the **SigFox** logo are trademarks of **SigFox** Technology

The Bluetooth trademark is owned by the Bluetooth SIG, Inc., and used by **SigFox** under license.

Microsoft, Windows, and Outlook are registered trademarks of Microsoft Corporation.

Other brand and products names may be registered trademarks or trademarks of their respective holders.

WinRoute Lite software is owned by Kerio Technologies Inc.

Rev. 1.3.2.7-02-18-03

# Contents

<b>Getting Start</b> .....	<b>5</b>
<b>Package Checklist</b> .....	<b>5</b>
<b>1.Introduction</b> .....	<b>6</b>
<b>2. Software Installation</b> .....	<b>7</b>
2.1 System Requirements .....	8
2.2 Before Installing .....	8
2.3 Install Widcomm Bluetooth software under Windows 2000/98 .....	9
2.4 Install Widcomm Bluetooth software under Windows XP .....	13
2.5 Install WinRoute Lite ( <b>SigFox</b> software CD includes WinRoute Lite trial version) .....	19
<b>3. Hardware Installation</b> .....	<b>20</b>
<b>4. BTW Console</b> .....	<b>23</b>
4.1 Bluetooth Security Settings .....	26
4.1.1 Local Services Tab .....	26
4.1.2 Client Applications Tab .....	27
4.2 Bluetooth Configuration .....	29
4.2.1 General Tab .....	30
4.2.2 Accessibility Tab .....	30
4.2.3 Discovery Tab .....	32
4.2.4 Local Service Tab .....	35
4.2.5 Client Application Tab .....	35
4.2.6 Hardware Tab .....	35
4.3 Bluetooth Setup Wizard .....	36
4.3.1 Finding other services .....	36
4.3.2 Finding services on specific computers .....	38

4.3.3	Configuring services to provide to remote clients .....	40
4.3.4	Changing your name and device type .....	42
<b>5.</b>	<b>Bluetooth Service Usage .....</b>	<b>43</b>
5.1	Local Device Services .....	44
5.2	Bluetooth Neighborhood Services .....	46
5.2.1	Bluetooth Serial Port .....	47
5.2.2	Dial-Up Networking .....	49
	<i>Part 1. Network setting</i> .....	49
	<i>Part 2. Dial-up</i> .....	51
	--- <i>Dial-up Networking example</i> --- .....	52
5.2.3	Network Access .....	54
5.2.4	File Transfer .....	64
5.2.4.1	Send To Bluetooth .....	66
5.2.5	PIM Item Transfer (Information Exchange) .....	68
5.2.6	PIM Synchronization (Information Synchronization) .....	69
5.2.7	Fax service .....	70
	<b>Specification .....</b>	<b>71</b>

## Getting Start

---

Thank you for purchasing this versatile Bluetooth™ wireless communication product manufactured by **SigFox** Technology

Before starting, please read this User Guide carefully to understand how to properly setup and use this product.

## Package Checklist

---

Please check all items included in product package with the list below. If there is any component damaged or missing, please contact your local distributor to get necessary support.

### USB Radio Data Transceiver Package List

- **SigFox** USB Radio Data Transceiver (1 or 2, depending on purchased package)
- **SigFox** software CD x 1
  - . Bluetooth™ for Windows (BTW) driver
  - . WinRoute Lite 30-day trial version
  - . Adobe Acrobat Reader
  - . Adobe Acrobat e-book Reader
- User Guide x 1
- Quick Setup Guide x 1

# 1. Introduction

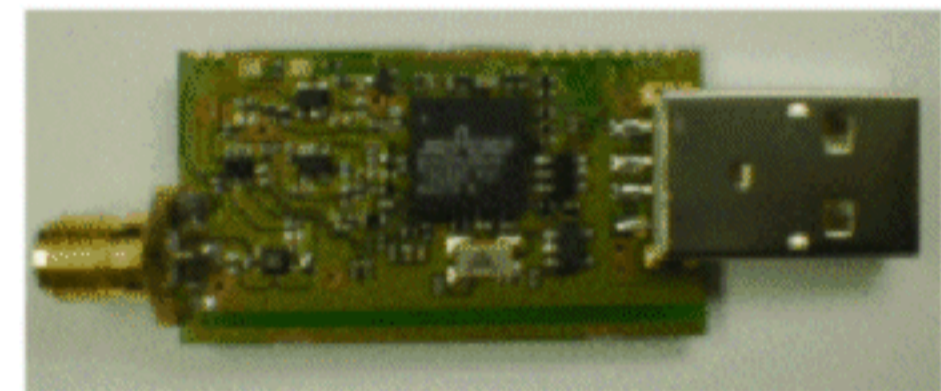
## Bluetooth™ Technology

The Bluetooth™ wireless technology is a short-range radio technology being developing by Ericsson, Intel, 3Com, Nokia, Toshiba, and other well-known companies.

The Bluetooth™ wireless technology, based on a low-cost and short-range radio link, helped to get rid of the cables that were used in the home and office to connect devices together: desktops, laptops, telephones, printers, PDAs, fax machines, keyboards, and other similar digital products. Meanwhile, it can easily simplify both communication and synchronization between devices. Any digital device that utilizes the Bluetooth™ wireless technology will be able to take advantage of the technology.

## SigFox USB Radio Data Transceiver

The USB Radio Data Transceiver built-in Bluetooth™ wireless technology allows a computer with a USB port to communicate with other Bluetooth-enabled devices. The USB **device** bundles a bluetooth software driver for performing wireless network applications such as file transfer, network access, dial-up networking and so on.



## Extended applications

The **SigFox** USB Radio Data Transceiver, compared to other BlueTooth devices available on the market, has a built-in power amplifier, and a built-in low noise figure LNA in the receiver path. Its transmitter output power is then greater than 30 mWatts, and the sensitivity is improved by more than 10 dBs which brings a very large increase of the possible range for given antennas. In addition, the **SigFox** device comprises an antenna connector for the use of an high gain antenna, as well as connexions to control an external booster.

All those features allow to increase the range from few hundreds of meters to few tens of kilometers.

For more informations, please refer to the "extended application manual".

# Product Specification

## Product Specification

General Ratio	Carrier Frequency	2.4~2.483GHz
	Data Rate	1Mbps
Ratio Performance Receiver	Rx sensitivity -95dBm	
Ratio Performance Transmitter	Power at Antenna Port : 30 mWatt RF min class 1	
Antenna	Integrated PCB antenna or SMA connector for external antenna	
Environmental	Operating Temperature	0 ~ +65
	Storage Temperature	-30 ~ +80
USB Adapter	USB Compliance	version 1.1
Dimension	37 x 21 x 2,75 mm	
	7 g weights	
Input Power	DC 5V (USB power)	
Input Current	Max. 120 mA	
Support Function	File Transfer, Dial-Up Networking, Network Access, Fax, Information Exchange, point to multi-point connection(1 server, 7 clients)	

# SigFox

## USB Radio Data Transceiver

---

BlueTooth technology for your  
short to long range fast data applications

