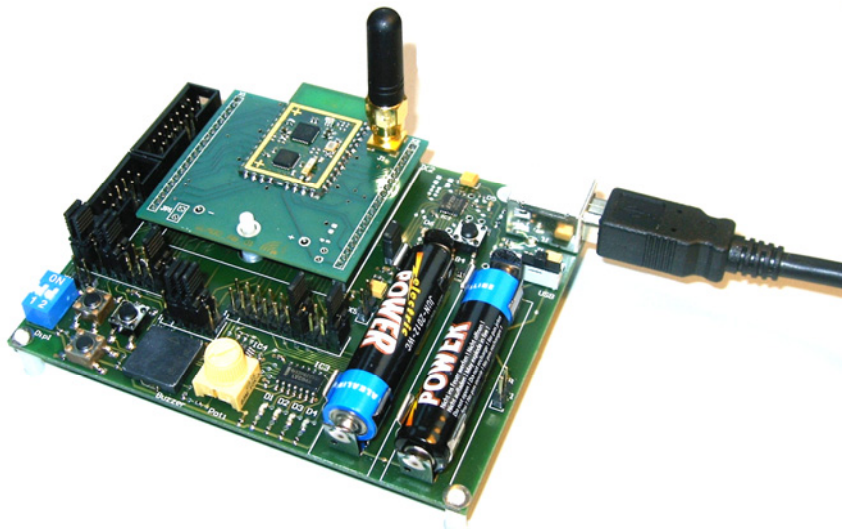


WiMOD - Starter Kit

Quick Start Guide



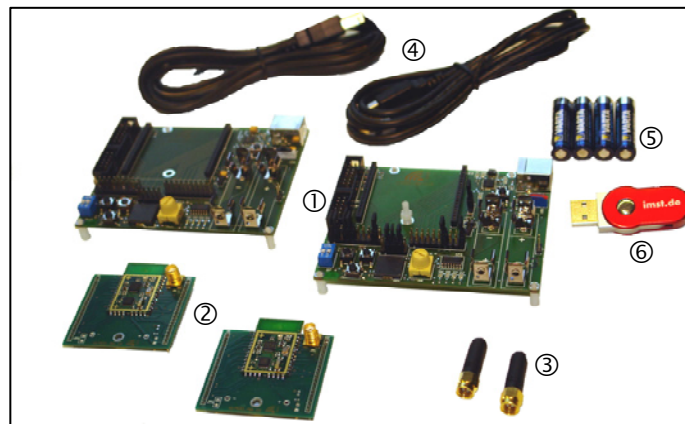
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1 Introduction

The WiMOD Starter Kit is a plug & play solution to explore features and capabilities of the WiMOD radio modules. This document describes how to get the Starter Kit running.



1.1 Content of this Kit

Hardware:

- ① 2x WiMOD Demo Board
- ② 2x module specific adapter board with soldered radio module
- ③ 2x external antenna
- ④ 2x male A/B USB cable
- ⑤ 4x AAA type battery
- ⑥ WiMOD CD or USB memory stick containing software and documentation

Software and documentation:

To run the Starter Kit, a PC with Windows XP (or newer) and at least one USB port are necessary.

Nr	File	Comment
1	\\documentation\hardware\iMxxxY ¹ _Datasheet	Datasheet for the radio module iMxxxY
2	\\documentation\hardware\DemoBoard_UserGuide	User Guide for the WiMOD Demo Board
3	\\documentation\software\WiMOD_DLL_Spec	Host Controller Interface Library specification
4	\\documentation\software\WiMOD_HCI_Spec	Host Controller Interface specification
5	\\documentation\software\WiMOD_HCI_ExampleCode	Sample Code for HCI implementation
6	\\drivers\CDM 2.04.06.exe	USB PC driver
7	\\firmware\AppStarterKit_iMxxxY ¹ .wfi	Binary firmware files
8	\\tools\WiMODStudio\WiMODStudio.exe	WiMOD configuration software for Windows TM PC
9	\\tools\WiMODStudio\WIMODHCl.dll	WiMOD DLL for Windows TM PC
10	\\tools\WiMODStudio\WiMODStudioConfig.xml	Configuration file for the WiMODStudio
11	\\tools\WiMODStudio\WiMODDevices.xml	Configuration file for the supported radio module
12	\\tools\WiMODStudio\doc\index.html	HTML documentation

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¹ iMxxxY is a synonym for the appropriate WiMOD radio module, e.g. iM820A.

2 Hardware Setup

2.1 Setup of the Demo Boards

- Plug the adapter boards with the soldered radio module on the Demo Boards.
- Mount the antennas on the adapter boards.
- Make sure that the jumpers JP1 are set.
- Verify that the default jumper setup is made according to Figure 2-1. Jumper “e” must be replaced by cable “e1” when using an iM240A.

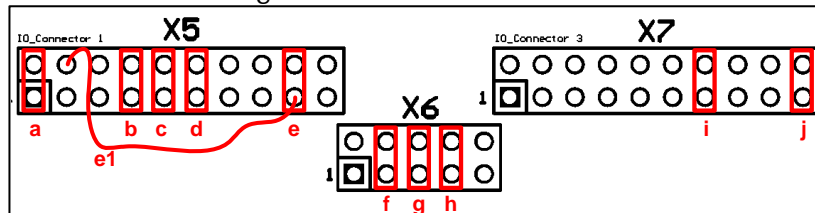


Figure 2-1: Default jumper set-up

2.2 Power Supply

The Demo Boards can operate by using USB or battery power supply. To use power supply via USB switch S1 (located nearby the USB connector) into position “USB”. If a USB cable is connected the power supply LED (D6) and the USB LED (D5) are switched on. To use battery power supply, insert the provided batteries and switch S1 into position “BAT”. Only LED D6 is turned on then. S1 can be used as an off-switch by switching it to the not used power supply.

3 Software Setup

The included WiMOD Studio can be used for configuration and usage of the preprogrammed radio modules and allows simple radio link evaluation as well as radio packet sniffing.

3.1 Setup of the PC

First copy the complete content of the enclosed data medium to a local folder on your PC. Then install the hardware driver for the USB chip on your PC. Either take it from the local folder (<local folder>\drivers\CDM 2.04.06.exe) or get it from the chip manufacturer’s web site (<http://www.ftdichip.com/Drivers/VCP.htm>). Connect the WiMOD Demo Board with an USB cable to your PC and switch S1 into position “USB”. If successful, the power LED (D6) and the USB LED (D5) are turned on. After the Demo Board is detected by your PC as a new hardware please follow the given instructions to install the new virtual COM port.

3.2 WiMOD Studio

Start the WiMOD Studio by double clicking the executable “WiMODStudio.exe²”. The PC GUI launches and the Starter Kit is ready for usage. To run the sample applications or evaluate the link quality it is necessary to assign every radio module an individual device address. Open the HTML documentation in the Starter Kit Menu (Help->Help WiMOD Studio) for a detailed description of the included applications and its features.

² If the WiMOD Studio does not start it might be possible that the Windows OS on the host PC needs the [Microsoft Visual C++ 2008 Redistributable Package \(x86\)](#). Download this package from the Microsoft link above.

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