Using DVB-T/DAB RTL2832 based USB receiver with HDSDR

Hardware requirements:

- DVB-T/DAB USB dongle with Realtek RTL2832 chipset
- PC with Dual Core CPU, Soundcard, one free USB 2/3 port

Software requirements:

- Microsoft Windows XP or newer, latest Service Pack required!!! (XP=SP3, Vista=SP2, Win7=SP1)
- HDSDR 2.70 or newer (SDR Software application)
- ExtIO_RTL2832.dll (hardware specific DLL)
- Zadig (device driver installer)

Installation:

- Don't install any software delivered with the USB dongle. If already done, uninstall this software (very important!!!)
- 2. Plug in the USB receiver and complete the driver installation by click Next/Finish (if demanded). (the correct driver will be installed later on)
- Download Zadig from http://zadig.akeo.ie/
 Windows Vista/7/8/10: download the newest version Windows XP users require a special zadig_xp version!
- 4. Start Zadig and press "Install Driver" to install the WinUSB drivers after selecting the right device(s). The device name is often "Bulk-In, Interface (Interface 0)". Problems occur when the original driver (delivered with the USB dongle) is still installed! These drivers sometimes do not get uninstalled correctly. In this case, click Options and enable "List All Devices", then choose the RTL-device and press "Replace Driver". Close Zadig.

evice <u>(</u>	<u>O</u> ptions <u>H</u> elp		
Bulk-In,	Interface (Interface 0)		💌 🕅 Edit
Driver	(NONE)	WinUSB (v6.1.7600.16385)	More Information WinUSB (libusbx)
USB ID WCID ?	0BDA 2838 00	Install Driver	<u>libusb-win32</u> libusbK WinUSB (Microsoft)

- 5. Download and Install HDSDR v2.70 or later from <u>http://hdsdr.de</u> , but don't start HDSDR immediately.
- 6. Download ExtIO_RTL2832.DLL from http://hdsdr.de/download/ExtIO_RTL2832.dll
- 7. Copy ExtIO_RTL2832.DLL into your HDSDR installation directory (default=C:\Program Files (x86)\HDSDR)
- 8. (re)start HDSDR (select ExtIO_RTL2832.DLL and preferred output soundcard if demanded)
- 9. You are ready to run HDSDR! (press Start)

Troubleshooting:

- check the device compatibility (ask Google)
- use USB 2.0 Port instead of USB 3.0 (blue) or disable USB3 support in BIOS
- don't use USB 1.x ports
- don't use USB extension cables
- don't use USB hubs
- try different USB ports
- Temporarily disconnect other USB devices (printer, scanner, storage, other SDR hardware, ...)

- check Windows Device Manager

🛃 Device Manager		
File Action View Help Image: Second Sec	Bulk-In, Interface (Interface 0) Prope	rties Driver File Details Bulk-In, Interface (Interface 0) Driver files: C.\Windows\system32\DRIVERS\winusb.sys C.\Windows\system32\WdfCoInstaller01011.dll C.\Windows\system32\WinUSBCoInstaller2.dll Provider: Microsoft Corporation
Processors		Provider: Microsoft Corporation File version: 6.1.7601.17514 (win 7sp 1_rtm.101119-1850) Copyright: ® Microsoft Corporation. All rights reserved. Digital Signer: Microsoft Windows

-change all ExtIO-DLL settings to default values

Device:	Tuner Gain
(1) - RTL2838UHIDI 💌	AGC
Direct Sampling:	
Disabled 💌	100
Sample Rate:	
2.4 Msps 👻	
Buffer Size:	
64 kB 👻	100
PLL LOCKED	Tuner AGC 🛛 📝
Frequency Correction:	RTL AGC
0 🌲 ppm	Offset Tuning