USB Driver for Windows CE
(u-blox 5/6 and ANTARIS 4)
User Guide

Abstract
This document describes the installation of a USB driver for the Windows CE operating system to be used with u-blox 5/6 and ANTARIS® 4 GPS receivers.
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1 Subject

This document describes the installation of a USB driver for the Windows CE operating system to be used with u-blox 5/6 and ANTRARIS® 4 receivers. The driver has been derived from a generic USB driver available at http://www.softclub.jp/zoro/ce/. It has been compiled with eMbedded Visual C++ 3.0 for platform “WCE ARM” and tested on a Fujitsu-Siemens LOOX 720 (running Microsoft Pocket PC 2003) but it should work on all ARM based USB hosts. Adaptations to other processors or platforms will have to be done directly from the original source code. u-blox assumes no design service for this purpose nor will u-blox be able to support such an endeavor.

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2 Installation Instructions:

- ActiveSync must be connected to the Pocket PC.
- Run ubxusbser.exe on the workstation.
• USB drivers will be installed onto Pocket PC over ActiveSync. Use Add/Remove Programs to install the driver.

![Image of Microsoft ActiveSync window]

**Add/Remove Programs**

Select a program’s check box if you want to install it on your mobile device, or clear the check box if you want to remove the program from your device.

**Note:** If a program that you installed is not listed, the program was not designed to be used on your mobile device.

- u-blox AG CE USB Driver: 19.3K
- u-blox AG u-CenterMobile: 1418.7K

**Program description**

Space required for selected programs: 0.0K
Space available on device: 22030.2K

- Install program into the default installation folder

- Remove from both locations:
  To remove the selected program from both your device and this computer, click Remove.

- OK  |  Cancel  |  Help

• Restart the Pocket PC.
• Connect the u-blox GPS Receiver to the USB host port of the Pocket PC.
• Start the navigation software of your choice, in our example u-centerMobile from u-blox. u-centerMobile is available for download over the u-blox website under: www.u-blox.com/products/u_center_mobile.html
• The COM port can now be selected in the navigation software. Windows Mobile does not list the assignment information for the available communication ports, which can make selecting the correct serial port number difficult.
After a successful installation the position and available satellites will be displayed. (In case the GPS receiver has been able to perform a position fix)
3 Uninstall Instructions:

- Close the COM port of the GPS application that uses the u-blox GPS receiver or close the application completely.
- Disconnect the u-blox GPS Receiver from the host port of the pocket pc.
- Delete the UBXUSBSER.dll from the Windows directory of your Pocket PC over ActiveSync. Use Add/Remove Programs to remove the driver (ActiveSync must be connected to the Pocket PC).
- The driver has made some registry entries, which can be deleted by using the program Windows CE Remote Registry Editor. The following three keys including all the sub keys can be deleted.

HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\5446_421_256
HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\5446_420_256
HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\Default\Default\UBXUSBSER

Figure 1: Registry
4 Other Processors and Operating Systems

Use the generic Windows CE USB driver available at [http://www.softclub.jp/zoro/ce/](http://www.softclub.jp/zoro/ce/) and adapt the source code to your device. Please note, u-blox cannot offer design services for such an adaptation nor will it be able to support it.


4.1 Configuration of the generic Windows CE USB driver

It is necessary to configure the generic Windows CE USB driver. For this purpose, it comes with an executable (232usb.exe). Figure 2 shows the recommended configuration.

![Configuration Window](image-url)
A License / Redistribution

The driver has been derived from a generic USB driver available at http://www.softclub.jp/zoro/ce/. It can be distributed according to the license disclaimer below.

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232usb - RS232 USB driver for WindowsCE
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Revision history

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