

Helios Windows CE 6.0 Software Development Kit

Quick Start Guide

DSC Document #7460554 Rev A

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Thank you for purchasing the Helios Windows CE Software Development Kit. This kit provides you with all the tools required for creating Windows CE 6.0 based platform images for your Helios single board computer.

Please note that this Development Kit contains two different discs:

- Microsoft Embedded CE 6.0 R2 Evaluation DVD
- Diamond Systems' Helios Windows CE Software Development Kit CD

Follow the steps below to begin your development.

1. Using the Microsoft Embedded CE 6.0 R2 Evaluation DVD, install the following software packages in this order onto your development station:

1.	Visual Studio 2005 Trial	Create an operating system design and build a Windows Embedded CE 6.0 runtime image using this development toolkit. Works with Platform Builder for Windows Embedded CE 6.0.
2.	Windows Embedded CE 6.0 Evaluation Edition	Integrate with Visual Studio 2005 using this Platform Builder for CE 6.0 development toolkit. (Base Windows Embedded CE 6.0 product)
3.	Microsoft Visual Studio 2005 Team Suite Service Pack 1	Improve performance and stability. Significant update to Visual Studio. Necessary for building Windows Embedded CE 6.0 runtime images.
4.	Visual Studio 2005 Service Pack 1 Update for Windows Vista®	Enable key features that are found in Visual Studio 2005 for the Windows Vista platform. (Only necessary if you are running Windows Vista.)
5.	Windows Embedded CE 6.0 Platform Builder Service Pack 1	Improve the debugging process. Update for Windows Embedded CE 6.0. Necessary for Visual Studio 2005 to build a CE 6.0 R2 runtime image.
6.	Windows Embedded CE 6.0 R2	Feature update for Windows Embedded CE 6.0 that extends the capabilities of existing CE 6.0 devices that connect to Windows Servers and also to each other. Enables you to build small footprint devices that connect to Windows Vista and Windows Server 2008. Also provides new features such as Voice over Internet Protocol (VoIP) Video and Web Services on Devices (WSD).

NOTE: Please make sure that all the service packs and product rollups are installed before you install any of the BSPs provided in the Diamond Systems' CD. The included file called WinCEPB60-071231-Product-Update-Rollup-X86.msi can be used, but it is still advisable to install all the latest product updates from the Microsoft web-site. Please also note that Diamond Systems has validated the included product update and the images provided have been compiled with the included files.

2. Once the development environment is setup, insert the Diamond Systems' Helios Windows CE Software Development Kit CD and open the documentation for the BSP development on the CD: Helios Windows CE 6.0 BSP.pdf.

This document contains all of the required information about the files which need to be installed for the development process.

3. Install the following files on your development station:

Vortex86DX_60A_BSP_090324.msi - Helios BSP for Vortex86DX and Vortex86SX processors.

VDX_CE6_SDK_090309.msi - Development Kit installer for the Vortex 86DX processor. This installer enables you to create applications for the Vortex processor.

4. Once the above mentioned BSP related applications are installed, you are ready to start your development with the BSP. For more information, please refer to the BSP document mentioned in Step 2 above.
5. To run the demo image provided by Diamond Systems:
 - Install the flashdisk provided in this Development Kit on the Helios SBC
 - Boot from the flashdisk
 - The demo image will run
6. To prepare the flashdisk for debug and development mode, copy the EBOOT.BIN, Autoexec.bat and config.sys file from the DEVFILE directory on the flashdisk to the C:\ (root) directory.
7. It is very important to note that the files are prepared for Ethernet boot-loader option. To develop and debug, an Ethernet connection must be made between the development system and target Helios SBC. Also a DHCP server should be available for the development.
8. For additional on-line BSP assistance, please visit Diamond System's Technical Support website at www.diamondsystems.com/support.

Further documentation and help is available on-line at Microsoft's website and other websites.