# VERSALOGIC
## CORPORATION

**Problem:**

How to install a bootable Windows XP Embedded (XPe) image on CompactFlash (CF) for use with a VersaLogic Single Board Computer (SBC) using a USB dongle.

**Background:**

See the VersaLogic OS Compatibility Chart to see which VersaLogic computers operate under XP Embedded. The article assumes that you have already prepared an XPe image that meets your needs (see VT1608 - Developing a Windows XP Embedded Image).

An XPe image can also be installed on CF via the IDE interface. For instructions, see knowledge base article VT1393.

**Solution:**

To perform this procedure, you will need the following:

- **Development system** with a USB dongle, Windows XPe, SP1, SP2, and Feature Pack 2007.
- **XPe image** built to operate on the VersaLogic SBC.
- **Target system** (VersaLogic SBC) with a USB connector or CF adapter. The adapter can be an on-board CF socket or a peripheral (such as the VersaLogic CFA-1) connected to the IDE interface.

1. On the development machine, prepare the CF module with the ufdprep.exe utility according to Step 1 of the Microsoft article "Booting XPe from USB" (http://msdn.microsoft.com/en-us/library/aa940960(WinEmbedded.5).aspx). The procedure assumes that you have created a working XPe image. The ufdprep.exe program is part of Feature Pack 2007 and can be found in the utilities folder.
2. On the development machine, copy the image onto the CF module in a USB dongle. You can do this by dragging and dropping the directory structure of your image onto the CF module or from the command prompt with the command:

   ```
   xcopy image_directory \*.* drive_letter: /e /h /f
   ```

   For example, if your XPe image is in a directory named Build and the CF module is designated as the E: drive:

   ```
   xcopy Build\*.* E: /e /h /f
   ```

3. Plug the CF into the target machine. You can either move the USB dongle to the target or remove the CF module and plug it into an IDE CF socket or adapter. **Note:** If you intend to boot from USB, the image must include support for USB booting.
4. Configure CMOS Setup to boot from CF device (either the USB dongle or the IDE channel). See knowledge base article VT1403 - Can't Boot from CompactFlash if you encounter problems.
5. Boot the target machine. The First Boot Agent will run and the board will automatically reboot into the XP Embedded environment.

**Related Articles:**

- [VT1608 - Developing a Windows XP Embedded Image for a VersaLogic SBC](#)
- [VT1393 - How to Load a Bootable Windows XP Embedded Image onto CompactFlash via IDE](#)

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