

# KOM Technical Info

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SUBJECT **How to build load WindowsXP onto a PENTXM2 User Flash or HDD**  
KEYWORDS **PENTXM2, WinXP, PMC-DGX, USER FLASH**  
Thema: **Procedure for installing Windows XP onto either the IDE User Flash or an IDE Hard disk on a PENTXM2**  
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## Equipment required:

- VME64x Chassis
- PENTXM2 Single Board Computer with output cable
- IDE40-2PS 40GB Hard Disk Drive with mounting plate and cable (if HDD is desired).
- PMC-DGX Graphics PMC with the BIOS option (order code: PMC-DGX-SA100).
- USB Keyboard
- USB Mouse
- USB CDROM Drive
- USB Hub (with at least 3 ports), or ports on the Keyboard or CDROM driver to allow chaining the keyboard, mouse, and CDROM drive to a single USB port.
- Graphics Console
- WindowsXP installation CDROM that *includes Service Pack 2*.
- **Darik's Boot and Nuke (DBAN) Utility (available at [www.dban.org](http://www.dban.org)).**

## Equipment configuration:

- Install PMC-DGX onto the PENTXM2.
- Install the 40GB HDD (if HDD is desired).
- Install PENTXM2/PMC-DGX into the VME64x chassis.
- Connect graphics console to the PENTXM2 output cable.
- Connect the keyboard, mouse, and CDROM drive to the *front panel* USB port (either using the USB HUB or by chaining the devices together using available ports on the keyboard or CDROM drive).

## Installation Procedure:

- Put the CDROM created for the DBAN utility into the CDROM drive.
- Boot the PENTXM2 from the CDROM drive (this may require changing the BIOS settings to move the CDROM device to the top of the list, or using the boot loader menu) – the DBAN utility is self booting (Linux).
- Run the “auto nuke” function of the DBAN utility to wipe clean the User Flash (and the Hard Disk, if installed).
- Remove the DBAN utility CDROM and install the WinXP install CDROM.
- Boot the PENTXM2 from the CDROM drive.
- Following the instructions for “auto install” of Windows XP choosing either the 4GB or the 40GB IDE HDD as the location to install to.
- The process from here to the end should be a “standard” WinXP installation.
- Once the install is complete, the user must download and install the driver for the Gigabit Ethernet devices (82571EB device from the Intel website).
- The driver for the PMC-DGX may also need to be installed depending on the age of the BIOS. Newer BIOS can run with the generic Microsoft driver but with reduced resolution. If the driver is needed/desired it is available from [www.asiliant.com](http://www.asiliant.com) (The device is the 69030 for one head. At the time of this FAQ the latest version was 2.5.1c and the file to download was called: WXPv251c.zip).

## Key Points and Notes:

- All of the USB devices **MUST** be installed into the FRONT PANEL USB port.
- The WinXP installation media **MUST** contain Service Pack 2 as part of the release.

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- It is possible to install WinXP onto the 4GB User Flash without using the DBAN utility, but installing to the IDE HDD absolutely requires that the User Flash have WinXP installed first, or that the Flash and IDE HDD be “cleaned” prior to the installation.
- If using a “new” SATA HDD, the installation does not require that any of the devices be “cleaned” prior to starting the installation.

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