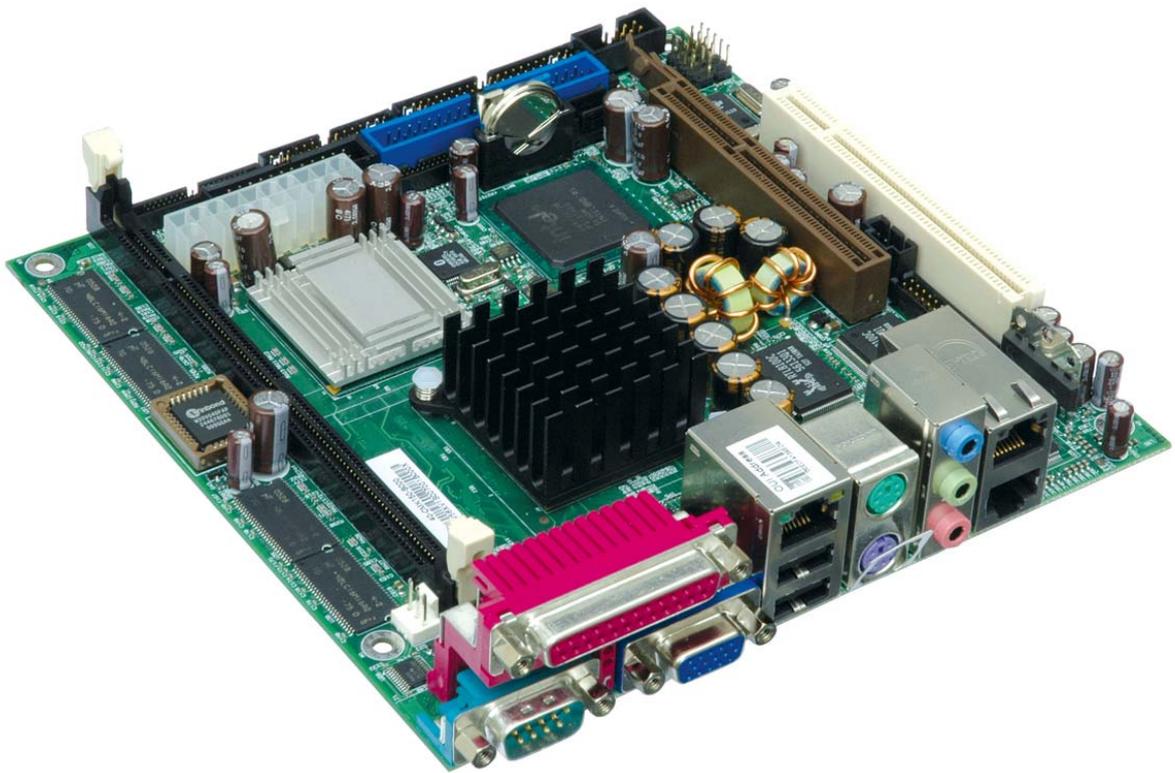




# Windows XP Embedded O/S Support for the 786LCD/mITX



## Document revision history:

Revision	Date	By	Comment
B	Feb. 20 <sup>th</sup> , 2006	LJE	Correction
A	Feb. 17 <sup>th</sup> , 2006	LJE	LCD Support added
0	Feb. 2 <sup>nd</sup> , 2006	LJE	First initial release



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## How to get started with Windows XP Embedded using Kontron Technology 786LCD/mITX XPE BSP.

This document is a brief introduction for using Windows XP Embedded OS on Kontron Technology 786LCD/mITX Boards. First step is to get the Kontron Technology 786LCD/mITX XPE-BSP (download from here: <http://www.kontron-emea.com/index.php?id=226&cat=61&productid=664>) and get a copy of Windows XP Embedded with Service Pack 2 from your local Microsoft supplier. (Evaluation copy can be downloaded from "http://msdn.microsoft.com/embedded/downloads/xp/default.aspx").

Proceed as follow:

1. Install Windows XP Embedded.
2. If LCD support is required then remove the file "wADV01nt.sys" located two placed in the "Windows Embedded Data" directory. Note that later when the image is build an error "Error 1005: File not found: "wADV01nt.sys" will be displayed, but simply ignore this message.
3. Add the 4 SLD files located in the XPE-BSP by running the Component Database Manager and import the 4 SLD files into the database.
4. Run the Target Designer and open the "786mITX SP2 Clean.slx" or "786mITX SP2 Taskmanager.slx" Platform file (this file contains component needed to build a Windows XP Embedded OS). By the Taskmanager.slx you can launch files and check stuff in the control panel. When all used components are displayed on screen please add additional components if needed.
5. Then build the Windows XP Embedded OS by pressing the F7 key "Build Target Image".
6. After the building process is completed, the Target Image must be deployed on target device.

## Deploying Windows XP Embedded to a Hard drive

1. Boot the system into MS-DOS.
2. Using the FDISK utility, create a FAT partition on the hard drive.
3. Reboot the system into MS-DOS.
4. Format the partition you created using the DOS FORMAT command.
5. Execute Bootprep.exe on the device.
6. Boot the system into Windows 2000 or Windows XP.
7. Run the Convert.exe tool on the device, specifying NTFS as the desired file system.
8. Place your run-time image and other desired files on the hard drive.
9. Boot the system with the hard drive.



Current 786LCD/mITX Windows XP Embedded Support:

<b>Graphics</b>	
Direct X, Direct3D	Supported Tested with 3Dmark2001
LCD Panels	All Panels supported by BIOS is supported by WinXP embedded
Dual Display	Supported
<b>Communication</b>	
Ethernet	Supported
Serial ports 1+2	Supported Not shared
Serial ports 3+4	Supported Not shared
Parallel port	Supported
Floppy	Supported.
USB Channels	Channel 0 supported Channel 1 supported
<b>Sound</b>	
AC97/98	Supported
DirectSound	Supported
<b>Other</b>	
Compact Flash	Supported
IDE Channel	
Primary	Supported
Secondary	Supported
IDE CDROM/DVD	Supported
DVD Playback	Supported Tested With WinDVD
Keyboard	Supported
KT-API including: GPIO, CPU Temp., Fan rotation, Watchdog, CPU Throttle	Supported
Power Management	Supported