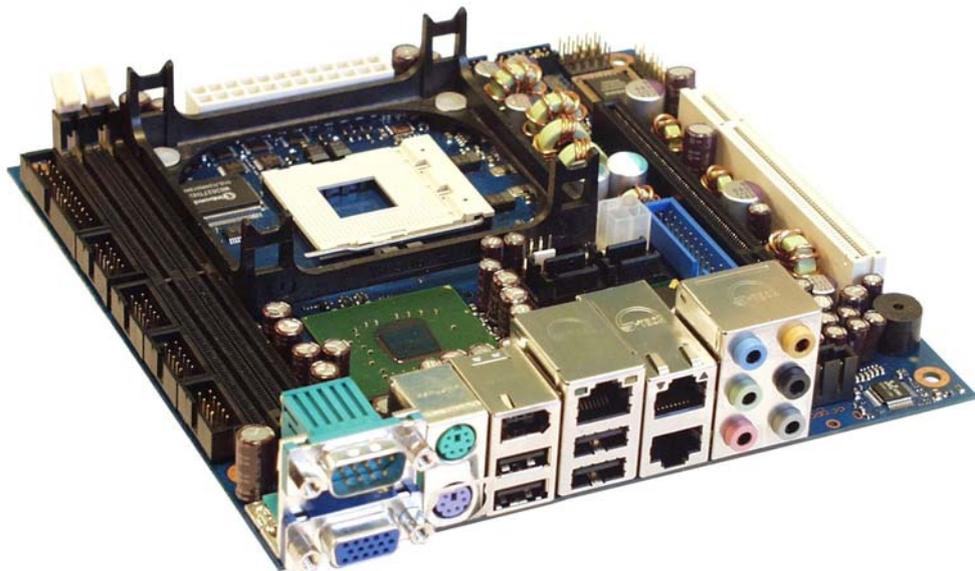


Windows XP Embedded O/S Support

for the

986LCD-M family

**Document revision history:**

| Revision | Date | By | Comment |
|----------|-----------------------------|-----|-----------------|
| A | June 17 th 2009 | LJE | XP SP3 included |
| 0 | July 4 th , 2006 | LJE | First release |

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**How to get started with Windows XP Embedded**

This document is a brief introduction for using Windows XP Embedded OS on Kontron Technology 986LCD-M family of boards. First step is to get a copy of Windows XP Embedded with SP2 (Service Pack 2) or SP3 as requested. You can get it from your local Microsoft supplier or download an evaluation copy from "<http://msdn.microsoft.com/embedded/downloads/xp/default.aspx>".

In case you want to implement a SP3 based then also download "Feature Pack" from MicroSoft.

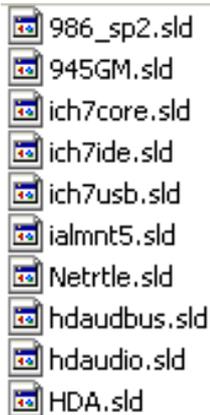
Finally you also have to download from www.kontron.com the requested Board Support Package either "986LCD-M BSP for Windows XP Embedded SP2" or "986LCD-M BSP for Windows XP Embedded SP3".

Installation in case of SP2:

Install Windows XP Embedded

Install Windows XP Embedded SP2

Run Component Database Manager and import from the BSP the 10 SLD files (see below) into the database



Run the Target Designer and open the "986LCD-M mITX ServicePack 2.slx" Platform file.

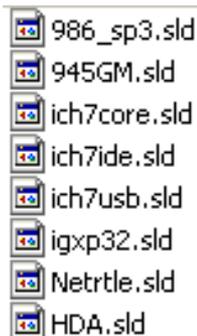
Installation in case of SP3:

Install Windows XP Embedded

Install the Feature Pack

Install Windows XP Embedded SP3

Run Component Database Manager and import from the BSP the 8 SLD files (see below) into the database



Run the Target Designer and open the "986LCD-M mITX ServicePack 3.slx" Platform file.

Continue:

The Platform file contains components needed to build the target Windows XP Embedded OS.

A Taskmanager is included in the SLX file, so you can launch files and check stuff in the control panel.

When the Taskmanager is opened then all used components are displayed on screen and you can add additional components if needed.

Build the Windows XP Embedded OS by pressing the F7 key "Build Target Image".

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 986LCD-M Windows XP Embedded Support:

| Graphics | |
|---|---|
| Direct X, Direct3D | Not tested |
| LCD Panels | All Panels supported by BIOS is supported by WinXP embedded |
| Dual Display | Supported |
| Communication | |
| Ethernet | Supported |
| Serial ports 1+2 | Not tested |
| Serial ports 3+4 | Not tested |
| Parallel port | Supported |
| USB Channels | Port 0-8 Supported |
| Sound | |
| Dolby Digital 5.1 | Not tested |
| DirectSound | Supported |
| Other | |
| Compact Flash | Supported |
| IDE Channel | |
| PATA | Supported |
| SATA | Supported |
| IDE CDROM/DVD | Supported |
| DVD Playback | Not tested |
| Keyboard | Supported |
| KT-API including: GPIO, CPU Temp., Fan rotation, Watchdog, CPU Throttle | Not tested |
| Power Management | Not tested |