


XP-8X4X-Atom-CE6 OS 1.0.0.1

Release Notes

Release Date: Apr. 9, 2012

Key Features:

Features	Supported	Description
OS Language	Yes	Windows CE 6.0 Multi-language Edition <ul style="list-style-type: none">● English● German● Russian● French● Spanish● Japanese● Italian● Simplified Chinese● Traditional Chinese● Korean● Portuguese
.NET Compact Framework 3.5	Yes	
SQL CE 3.5	Yes	SQL CE 3.5 (3.5.5386.0)
FTP Server	Yes	
HTTP Server	Yes	
Telnet	Yes	
Printer	Yes\ (PCL 6)	Support for HP Laser Jet printers with USB and Ethernet interfaces
Touch Panel	Yes	Support for touch panels using RS-232 and USB interfaces
Multiport Serial Communication Module 	Yes	A maximum of 28 external COM ports can be added to an XP-8x4x-Atom-CE6. (e.g., 7 modules * 4 ports per module = 28 ports) I-8112iW (RS-232 *2), I-8114W (RS-232 *4), I-8114iW (RS-232 *4), I-8142iW (RS-485 *2), I-8144iW (RS-485 *4)

OS and BIOS compatibility

BIOS version OS version	R1.00.E0	R1.00.E1
OS 1.0.0.1 and later	Not compatible	OK
OS 1.0.0.0	OK	OK

* See page 5 for details of how to determine the current version of the BIOS on your controller

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OS 1.0.0.1 Release Notes

This release changes the procedure for restoring the registry to the factory default settings, reduces the average daily deviation, fixes the issue where the USB ports may not work after boot up, and adds support for interrupt events triggered by a falling edge signal from the backplane. OS 1.0.0.1 requires BIOS version R1.00.E. You can determine the BIOS version by checking the boot screen displayed during initial boot up, as per the description on page 5.

Change

- In the previous version, restoring the registry to the default factory settings was achieved by simply setting the rotary switch to the 1 position and powering on the XP-8000-Atom-CE6 module which made it too easy to reset the module accidentally. To prevent this, you are now required to manually confirm the action. See page 6 for a detailed description of the procedure for restoring the default registry settings.

Improvements

- Reduced the average daily deviation to between +2 and +3 seconds.
- Added support for interrupt events triggered by a falling edge signal from the backplane.

Bug fixes

- Fixed the issue where the USB ports may not work after boot up. Note that OS 1.0.0.1 requires BIOS version R1.00.E1. See page 5 for details of how to determine the BIOS version.

Toolkit Changes

- **XPAC Utility version 1.0.3.5** [Mar.9, 2012]
When the user restores the default registry settings, the user language is also set to the default settings (English).

■ **Autolnit.exe version 1.1.0.0** [Apr. 9, 2012]

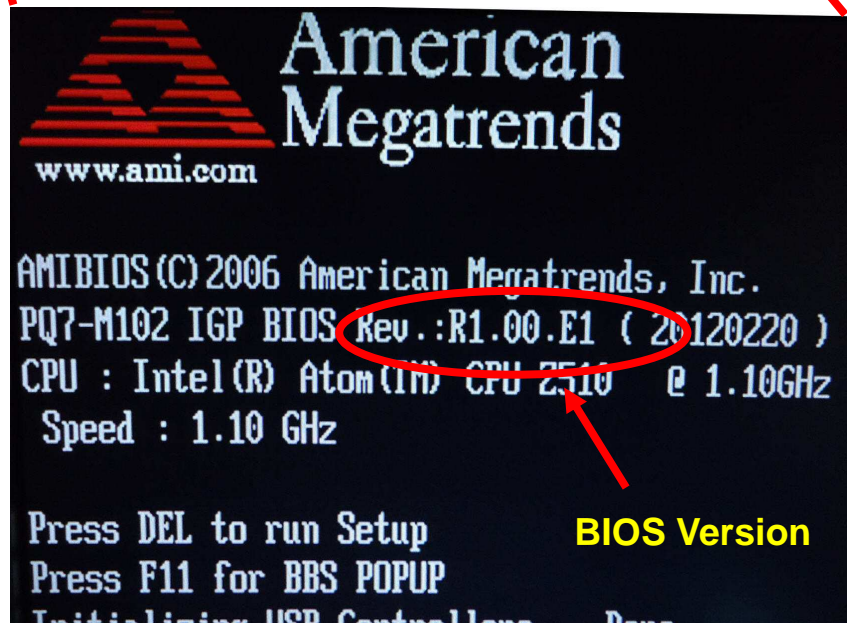
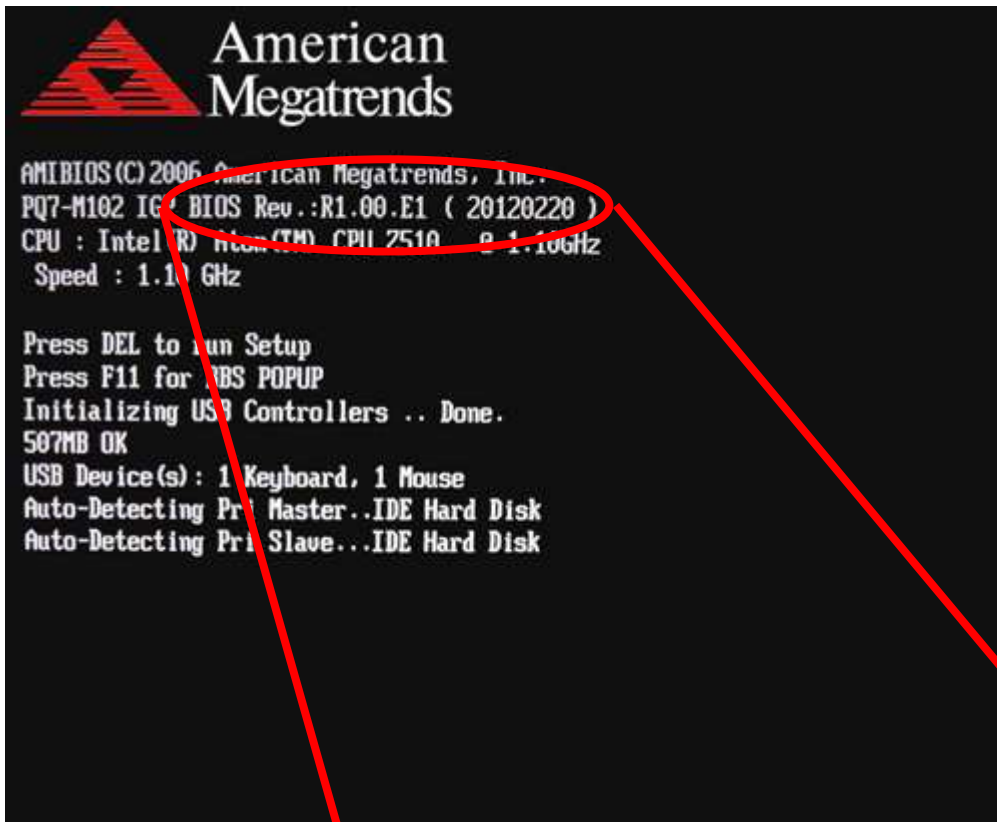
When the XP-8000-Atom-CE6 module is booted up with the rotary switch set to the 1 position, Autolnit.exe displays a dialog box listing the remaining steps in the procedure for restoring the default registry settings.

■ **XPAC SDK DLL version 2.0.1.1** [Apr.2, 2012]

1. Added a set of functions with name ending in Ext such as `uart_WriteExt`, `uart_ReadExt`, `uart_SendExt`, `uart_RecvExt` and `uart_SendCmdExt`. These functions are similar to `uart_Write`, `uart_Read`, `uart_Send`, `uart_Recv` and `uart_SendCmd`, but add buffer length parameter for specifying the length of data to avoid buffer overflow problems.
2. Fixed a bug in `uart_Send`, `uart_Recv`, `uart_SendCmd`, `uart_SetTimeOut`, `uart_BinRecv`, `uart_BinSend`, `uart_BinSendCmd` and `pac_GetBPTimerTimeTick_ms`
3. Added support for detecting I-7000 modules in the `pac_ModuleExists` function.
4. Added reserved memory segment to let the OS be able to save system information.

How to determine the BIOS version

1. Power on the XP-8000-Atom-CE6 and press the "Pause Break" key on your PC keyboard to suspend the boot process.
2. Identify the version, as shown below:



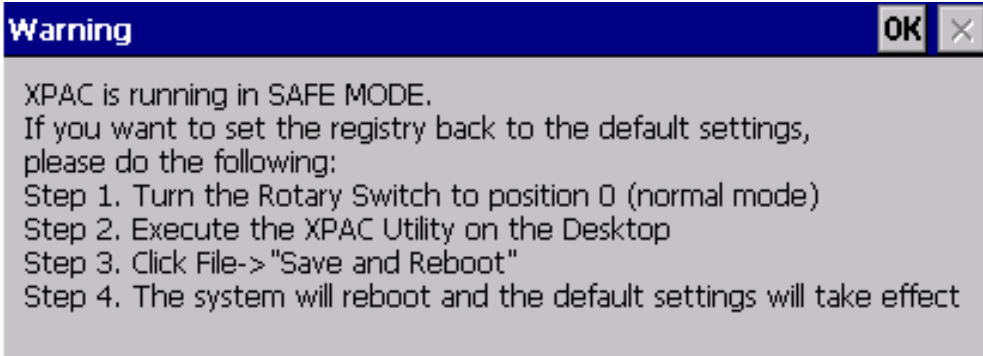
How to restore the registry to the factory default settings

Step 1: Power off the XP-8X4X-Atom-CE6 module.

Step 2: Turn the rotary switch to the “1” position.

Step 3: Power on the XP-8X4X-Atom-CE6 module.

Step 4: Follow the instruction given in the pop-up dialog box, or continue to step 5.



Step 5: Turn the rotary switch to the “0” position (Normal mode).

Step 6: Launch the XPAC Utility, then click “File” >> “Save and Reboot” to reboot the module.



After the XP-8X4X-Atom-CE6 finishes rebooting, the registry will be restored to the factory default settings.