


WP-8x4x_ce50 OS Update History

Last update [03/03/2015]

Key Features:

Features	Supported	Description
OS Language	Yes	<p>WP-8x4x-EN: Multi-language, including:</p> <ul style="list-style-type: none"> - English - German - Russian - French - Spanish - Italian - Korean <p>WP-8x4x -SC: Simplified Chinese WP-8x4x -TC: Traditional Chinese</p>
.NET Compact Framework 2.0 .NET Compact Framework 3.5	Yes	V2.0.7045 for Visual Studio .Net 2005/2008 V3.5.7283.0 for Visual Studio .Net 2008
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
Display Resolution	Yes	800 * 600, 640 * 480
Touch Panel	Yes	Support for touch panels using the RS-232 and USB interface
Multiport Serial Communication Module 	Yes	Support modules: 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) The maximum number of ports can be extended is 16 (i.e., 4 slots * 4 ports per module = max. of 16 ports)

Software and Hardware Compatibility

Software		Hardware					
OS	Eboot	PCB V1.4	PCB V2.0	PCB V2.4	PCB V2.5	PCB V2.8	PCB V3.2
V1.7.3.0 [03/03/2015]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	Yes
V1.7.2.0 [12/20/2013]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	Yes
V1.7.1.0 [02/27/2013]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	Yes
V1.7.0.1 [10/15/2012]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	-
V1.6.1.1 [06/06/2012]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	-
V1.6.0.1 [08/15/2011]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	-
V1.5.0.2 [08/03/2010]	V1.2.0.1	Yes	Yes	Yes	-	-	-
V1.5.0.1 [04/15/2010]	V1.2.0.1	Yes	Yes	Yes	-	-	-
V1.4.2.1 [10/22/2009]	V1.0.6.1	Yes	-	-	-	-	-

Determining the hardware version

CPU Board Version

C270
 C270W Rev 1.X

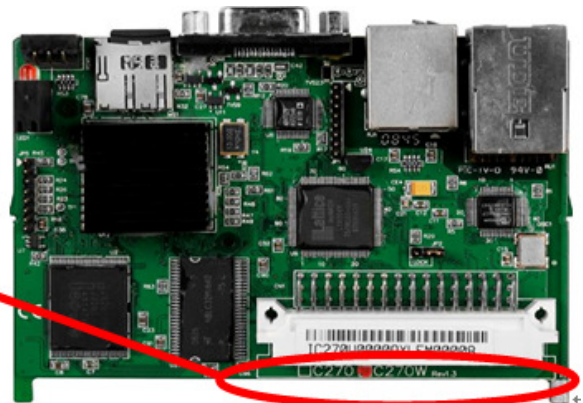


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WP-8x4x OS V.1.7.3.0 Release Notes [03/03/2015]

Abstract

This release fixes a problem of LAN1 not working when the “Automatically adjust clock for daylight saving” function is enabled; and adds new supports for the power-on password protection.

New Features

- Adds support for power on password protection.

Improvements and Bug Fixes

- Solved the problem of LAN1 not working when the “Automatically adjust clock for daylight saving” function is used.

Eboot Version

- No updates (V1.2.1.0, 09/27/2011)

Software and Hardware Compatibility

Software		Hardware					
OS	Eboot	PCB V1.4	PCB V2.0	PCB V2.4	PCB V2.5	PCB V2.8	PCB V3.2
V1.7.3.0 [03/03/2015]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	Yes

WinPAC Utility and PACSDK

- PACSDK DLL Version 4.3.3.0 (Released on 12/04/2014)
- WinPAC Utility Version 2.1.0.6 (Released on 11/30/2013)

WP-8x4x OS V.1.7.2.0 Release Notes [12/20/2013]

Abstract

This release fixes an issue where the CPU usage may rise to 100% after a user inserted and then removed a USB disk more than eight times; amends a problem that the micro SD card sometimes was not mounted after booting. It also solves a problem of that using multiple Modbus connections in ISaGRAF sometimes caused the LAN1 Ethernet connection to malfunction. Add new supports for non-Windows XP-style GWES that allows the user to change the button color, DHCP allocator to assign the DHCP IP address in LAN, and PPTP/L2TP protocols to connect to a VPN as a dial-up client.

New Features

- Users now can change the GWES to non-Windows XP style skin and then change the button color.
- Adds support for DHCP allocator to assign the DHCP IP address in LAN.
- Adds support for PPTP/L2TP dial-up access, which can be used to connect to a VPN.

Improvements and Bug Fixes

- Modified the driver for the micro SD card to solve a problem where the micro SD card was sometimes was not mounted after booting.
- Fixed an issue in the USB driver that the CPU usage rises to 100% when the user inserted and then removed a USB Disk over 8 times.
- Update the Ethernet LAN1 driver to prevent a problem of LAN1 Ethernet connection malfunction caused by using multiple Modbus connections in ISaGRAF.
- Solved an issue of the icon for Ethernet connection status in the taskbar may display incorrect status when the WP-8x4x controller rebooted with LAN1 or LAN2 Ethernet connection was disabled.

Eboot Version

- No updates (V1.2.1.0, 09/27/2011)

Software and Hardware Compatibility

Software		Hardware					
OS	Eboot	PCB V1.4	PCB V2.0	PCB V2.4	PCB V2.5	PCB V2.8	PCB V3.2
V1.7.2.0 [12/20/2013]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	Yes

WinPAC Utility and PACSDK

- PACSDK DLL Version 4.2.3.8 (Released on 10/30/2013)
- WinPAC Utility Version 2.1.0.6 (Released on 11/30/2013)

WP-8x4x OS 1.7.1.0 Release Notes

This release provides support for a new version of the hardware v3.2 and fixes an error that caused the system to lock while the backplane COM port (COM0) was communicating. A new PACSDK which unifies SDK for WinPAC (Win CE5.0 on ARM platform) and XPAC (Win CE6.0 on X86 platform) is also released for users to share codes quickly and easily on the two units.

Improvements and Bug Fixes

- Added supporting for the new version of the hardware v3.2.
- Fixed an error with the backplane driver that sometimes caused the system to lock while the backplane COM port (COM0) was communicating.

Bundled Eboot Version: 1.2.1.0 [09, 27, 2011]

No updates

Software and Hardware Compatibility

Software		Hardware					
OS	Eboot	PCB V1.4	PCB V2.0	PCB V2.4	PCB V2.5	PCB V2.8	PCB V3.2
V1.7.1.0[02/27/2013]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes	Yes

Toolkit Changes

WinPAC Utility Version 2.1.0.4 [Dec.25, 2013]

- Fixed some UI display bugs.
- Added a revision for the detection of OSflash and Dataflash.

VCEP Version 5.0.0.0 [Jan.25, 2013]

- Added support for the "Connect from Server" feature; when the PC connecting to Ethernet through a DDNS provided domain name (without having Public IP), enable "Connect from Server" can connect to the PC by VCEP server (on WinPAC).
- Added support for the WinPAC having private IP in LAN to communicate to PC in WAN, and it can connect to two PC for redundancy.
- Added support for multiple connections from PC to devices

OS Version 1.7.0.1 [October 15, 2012]

This release improves the system_disk driver to resolve a problem that the system_disk couldn't be written caused by the WP-8x4x was rebooted while the system_disk was defragmenting in the background. In addition, improvements have also been made to increase the system_disk read/write speed and extend the life of the system_disk. An error with the system may crash caused by 4 COM ports were communicating simultaneously has been fixed. The problem where MMTIMER sometimes wouldn't work has also been solved. And supporting for PPPoE protocol has been added, it can be used to connect to an ADSL network.

New Features

- Added supporting for "PPPoE" dial-up, which can be used on an ADSL connection.

Improvements and Bug Fixes

- Resolved the problem that the system_disk would not be writable if the system was rebooted when the system_disk is defragmenting in the background.
- Increased the system_disk read/write speed and extended the life of the system_disk.
- Fixed an error with the multi-serial driver that sometimes caused the system crash when four COM ports were communicating at the same time.
- Fixed the problem where MMTIMER sometimes wouldn't work.

Bundled Eboot Version: 1.2.1.0

No update

Software and Hardware Compatibility

Software		Hardware				
OS	Eboot	PCB V1.4	PCB V2.0	PCB V2.4	PCB V2.5	PCB V2.8
V1.7.0.1 [10/15/2012]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes

OS Version 1.6.1.1 [June 06, 2012]

This release adds support for SNMP in IndoSoft and a function for hiding desktop icons; fixes an issue with FTP transfer on 2G and 3G modules (such as I-8212W, I-8212W-3GWA and I-8213W) may become disconnected, and fixes bug of OS halted when saving the registry during the system_disk defragment procedure running; it also fixes an issue with LAN1/ LAN2 not always working correctly when the WP-8x4x was powered on or the backplane battery was running low.

New Features

- Added support for InduSoft Studio SNMP-related files.
- Added a function that allows icons on the desktop to be hidden.

Bugs Fixed and Improvements

- Improve the connection stability for using 2G and 3G modules (such as I-8212W, I-8212W-3GWA and I-8213W) to transmit the FTP data.
- Fixed an issue with LAN1 and LAN2 not always working correctly after rebooting
- Fixed an issue where saving the registry during the system_disk defragment procedure running, the OS would be halted.
- Updated the DM9000 driver to show connection speeds up to 100MB.
- Fixed a LAN1 issue with not working when the backplane battery voltage is running low. (in OS v.1.6.0.1 only)
- Fixed an issue where the back slash (\) was replaced with 'W' mark in CMD.exe. (in OS v.1.6.0.1 only)

Bundled Eboot Version: 1.2.1.0

- No update

Software and Hardware Compatibility

Software		Hardware				
OS	Eboot	PCB V1.4	PCB V2.0	PCB V2.4	PCB V2.5	PCB V2.8
V1.6.1.1 [Mar. 06, 2012]	V1.2.1.0	Yes	Yes	Yes	Yes	Yes

OS Version 1.6.0.1 [August 15, 2011]

Abstract

This update releases the following issues:

- Adds support for .NET Compact Framework 3.5.
- Adds support for File (SMB) server.
- Adds support for the MXIC MX28GL256F Flash chip.
- Adds support for the CPU PXA207M.
- Adds support for the Korean User Interface and Input Method Editor.
- Fixes the bug that causes the System time to reverse or to move ahead by one second after a reboot.
- Improves an issue that caused an auto-run program set in the Auto Execution tab of the WinPAC utility to fail after rebooting, which occurred because the relevant driver of the program is loaded later than the program.

New Features

- Adds support for .NET Compact Framework 3.5.
- Adds support for File (SMB) server.
- Adds support for the MXIC MX28GL256F Flash chip.
- Adds support for the CPU PXA207M.
- Adds support for the Korean User Interface and Input Method Editor.

Bugs Fixed

- Fixes the bug that causes the System time to reverse or to move ahead by one second after a reboot.

Improvements

- Improved an issue that caused an auto-run program set in the Auto Execution tab of the WinPAC utility to fail after rebooting, which occurred because the relevant driver of the program is loaded later than the program.

Eboot Version 1.2.1.0 [September 27, 2011]

- Adds support for the MXIC MX28GL256F Flash chip.

OS Version 1.5.0.2 [August 03, 2010]

Abstract

This update solves the following:

- The system will always reformat after rebooting. When the System_Disk flash chip is Intel J3 75ns. (The Intel 75ns J3 Flash chip in the WP-8x4x has been phased out since June 30, 2009)
- Add a service that enables automatic synchronization of system time.
- Add support for a 64Bit OEMQueryPerformanceCounter.

New Features

- The new OS version includes a service that enables the system time to be automatically synchronization with the internet or local time server. The default setting is disabled.

Bugs Fixed

- Resolved the problem when the system will always reformat after rebooting when the System_Disk flash chip is Intel J3 75ns and the OS version is 1.5.0.1. (The Intel 75ns J3 Flash chip in the WP-8x4x has been phased out since June 30, 2009)

Improvements

- Added support for the 64-bit OEMQueryPerformanceCounter.

Eboot Version 1.2.0.1 [March, 26, 2010]

OS Version 1.5.0.1 [April 15, 2010]

Abstract

This update improves the communication stability on LAN2; changes file system of System_Disk from FAT to transaction-safe TFAT; provides an option to retain current registry after updating OS image by executing the .exe file.

New Features

- The prefix name of multi-serial modules (I-811xW or I-814xW) can be "COM" or "MSA/MSB/MSx".
 - WinPAC utility: supported by V2.0.1.5 or later
 - The prefix name only be "MSA/MSB" in the previous OS versions.
- **Add backplane timerout/timer1/timer2 functions**
 - WinPACSDK.dll Ver. 1.0.9.4 or later
- The Network ID (User name/Password/Domain) can be allowed to access to network resources and the settings will not be lost after rebooting.
- Shows the CPU frequency to "Processor" field in the system properties.
- Add "Device Management ISAPI Extension" and "Web Server Administration ISAPI"

Bug Fixed

- The serial touch panel driver on COM1 of WP-8x4x can not co-work with the multi-serial driver.
- Application program hangs after booting if it uses any multi-serial module (I-811xW or I-814cxW). The bug is due to wrong boot sequence. The multi-serial driver should be loaded before executing auto-run programs set by WinPAC/ViewPAC utility. If an AP launches the multi-serial driver but the driver is not loaded yet, it hangs. This update puts multi-serial driver to higher boot sequence.
- Sometimes application programs don't been executed automatically after booting. The bug is due to wrong boot sequence. The disk drivers (System_Disk and Micro_SD) should be loaded before executing auto-run programs set by the WinPAC/ViewPAC utility. If the disk drivers are not ready, OS will not able to find the application programs and execute them. This update puts disk drivers to higher boot sequence.

Improvements

- LAN2 sometimes fails during long term communication. The update improves the communication stability to avoid the fail.
- Show a "format the disk" dialog box and blink the running LED, while formatting the System_Disk.
- Show a "defragment" icon on the system tray and blink the running LED, while defragmenting the System_Disk.

Modifications (Changes)

- Set power management to disabled as factory default.
 - The power management can be used to automatically turn on/off the display.
- Remove "Microsoft Windows CE v5.00 (.....)" message from the desktop.
- Change file system of System_Disk from FAT to TFAT

Important notice:

Changing the file system from FAT to TFAT will cause the System_Disk lost.

- Update the OS by executing the .exe file: the System_Disk will be back up to the microSD before the updating, and be restored after the updating is done. The whole processes are performed automatically.

Following document shows the details

CD:\ napdos\wp-8x4x_ce50\ \Document\How_To\Update_Software\

W4-01-03_how_to_update_OS_image_from_V1421_to_V1501_by_Exe_file_english.pdf

- Update the OS by Eshell: the System_Disk will disappear after updating the OS from Ver. 1.4.2.1 or earlier to Ver. 1.5.0.1. You must manually backup the System_Disk before the updating.

Eboot Version 1.2.0.1 [March, 26, 2010]

Modifications

- Show a special number, FF-FF-FF-FF-FF-FF-FF-FF, to indicate the failure of the 64-bit hardware serial number. Before the update, the number is empty. The number can be obtained from the System Information of the WinPAC utility.

OS Version 1.4.2.1 [October 22, 2009]

New Features

- Multi-language user interface for OS with multi-language keyboard layout
 - Multi-language
 - English (V1410 and later)
 - German (V1410 and later)
 - Russian (V1410 and later)
 - French (V1420 and later)
 - Spanish (V1420 and later)
 - Italian (V1420 and later)
 - Simplified Chinese
 - Add Pocket IME (簡中輸入法)
 - Traditional Chinese
 - Add Input Method Editor-Pocket IME (繁中輸入法)
 - Add Phonetic Input (Bopomofo) (注音輸入法)
- Provide SNMP protocol
- Add PM (Power management) function
 - Control display on/off by PM
- Add ActiveSync program to synchronize WinPAC with either a desktop PC
 - ONLY allow COM4(RS232) connection
- Provide 5 accounts and passwords for FTP/Telnet authentication(Windows CE Authentication Services)
 - Configuration by WinPAC utility (V2013)
- Add two operation modes determined by the Rotary switch
 - Rotary Switch 6 -> Run VCEP.exe automatically after booting
 - Rotary Switch 5 -> Run DCON_CE.exe automatically after booting

Bug Fixes

- Fix the wrong month number of OS version.
- Fix a bug that the DeactivateDevice and ActivateDevice API cannot be loaded and unload OHCI driver by the application.

Improvements

- Improve the compatibility of USB host port (Fix that some USB hubs cannot be detected by WinPAC in the booting phase)

- Improve the stability of LAN port(Fix that LAN1/LAN2 sometimes cannot be activated in the booting phase)
- The module type of WinPAC is written on [HKEY_LOCAL_MACHINE\HARDWARE\MODULETYPE] of the system registry.
- Add VBScript 5.6 :MsgBox and InputBox support"

Modifications

- Set "RUN" led always on while the system is booted.
- Modify the priority of Micro SD
 - Controller IST priority 0x64 change to 0x78
 - Card Detect IST priority 0x65 change to 0x79
- Default WatchDog for monitoring the system status is changed as Hardware Watchdog.

Eboot Version 1.0.6.1 [October,06, 2009]

Bug Fixes:

- Fix a bug of EEP_SaveEbootVersion (Show MAC address correctly)

Improvements:

- Add a function to change display type in the debug mode

Modifications: None

OS Version 1.4.1.0 [July,10, 2009]

New Features

- Support SDHC (Maximum size: 32GB)
- Multi-language user interface for OS
 - WP-8x4x series supports 3 OS image
 - Multi-language
 - English
 - German
 - Russian
 -
 - Simplified Chinese
 - Traditional Chinese
- Suppo

Bug Fixes

- Fix a bug that some USB hub cannot be detected by WinPAC in the booting phase
- Fix LAN1/LAN2 sometimes cannot be activated in the booting phase

Improvements

- Enhance SD driver performance (SDHC)

Modifications

- Change kypad.dll to kbdmouse.dll
- Enable FTP server and allow Anonymous to Upload files in default mode
- Move dll files related to SQL CE3.5 to System_Disk
- Set Internet Explorer mode to UTF-8
- Change IRQ number for Backplane

Eboot Version 1.0.6.1 July, 09, 2009]

Bug Fixes:

- Fix a bug that the month number bug of Eboot

Improvements:

Modifications: None

OS Version 1.3.0.4 [Feb., 25, 2009]

New Features

- Supports Multi-serial module (i-8112iW,i-8114W, i-8114iW,i-8142iW, i-8144iW)
To configure the modules, you have to update WinPAC Utility to Ver 2.0.0.6.
- OS image file can be updated to WP-814x/WP-844x/WP-884x controller

Bug Fixes

- Some modules (i-8017HW, i-8094H) plugged in Slot0~Slot3 make communication error to COM2,COM3 and COM4.
- CPU loading becomes 50% even there is no program running. It should be less than 2%.
- Can not run programs for more than 3 days.
- Can not perform on-line debug on VS.Net 2005.
- SQL CE 3.5 (3.5.5692.0) recovers to SQL CE 3.5 (3.5.5386.0)
 - Fixes that sqlCmd.ExecuteResultSet(ResultSetOptions.Scrollable) causes the error exception on .Net CF program.

Improvements

- None

Modifications

- Set the running LED (on the front panel) always On after the system booting. Before, the LED is keep at blank and sometimes flashing.
- Slot Interrupt number for I/O module has redefined. The WinPACSDK.dll must be updated to **V 1.0.7 .9** or **later** and the I/O module can work correctly on WP-8x4x with V1.3.0.4 OS.

Eboot Version 1.0.5.6 [25, February, 2009]

New Features:

- Eboot can be updated to WP-814x/WP-844x/WP-884x controller

Bug Fixes:

- Date of the Eboot cannot be saved to EEPROM. This makes the information shown on WinPAC Utility is always "FFFFFF".

Improvements: None

Modifications: None

OS Version 1.3.0.0 [Nov., 28, 2008]

New Features

- Supports 48MB and 96MB Flash memory size
In hardware specification, there are two types of the Flash size (16MB * 3= 48 MB and 32MB * 3= 96 MB)
- Supports 640 * 480 VGA resolution
- Support Touch Panel driver
 - Penmount USB
 - Penmount Serial
 - ELO USB
 - ELO Serial
 - Egalax USB
 - Egalax Serial

Bug Fixes: None

Improvements: None

Modifications: None

OS Version 1.2.1.0 [Sep., 17, 2008]

New Features

- Support HP Laser Jet Printer for USB and Network.

Bug Fixes: None

Improvements: None

Modifications:

This version OS recovered .NET CF from 3.5 to 2.0 for more reliable cooperating with SQL CE 3.5 For more information about this, please reference "WinPAC??000 Version 1.2.1.0 Release Note"

Eboot Version 1.0.5.2

OS Version 1.2.0.1 [Aug., 07, 2008]

New Features: None

Bug Fixes

- Add LPCD (Local Procedure Call Driver) to system register for Quicker and Indusoft.
Without LPCD, Quicker and Indusoft can not work well.

Improvements: None

Modifications: None

Eboot Version 1.0.5.0

OS Version 1.2.0.0 [Aug., 05, 2008]

WARNING: This version OS may format your System_Disk after updating OS image!
Please backup your System_Disk before updating OS image!

New Features: None

Bug Fixes

- Fixed hardware watchdog disable os watchdog and reboot

Improvements

- Add SPI_GETPLATFORMTYPE ==> "WinPAC270_CE500"
- Add SPI_GETOEMINFO ==> "WP_8X4X"
- Enlarges System_Disk from 14MB to 15MB.

The registry size is reduced from 512KB*3 to 1024KB*1. This makes the used Flash space for registry been reduced from 2MB to 1MB. Thus, the System_Disk can be enlarged from 14MB to 15MB.

Modifications: None

Eboot Version 1.0.5.0

OS Version 1.1.0.0 [Jul., 18, 2008]

FIRST RELEASE

Eboot Version 1.0.5.0