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WP-8x4x: Important notices and history of OS image

OS Version	Eboot Version	Statement
1.1.0.0	1.0.5.0	First release
1.2.0.0	1.0.5.0	Flash space for registry: 2MB to 1MB (16MB) System_Disk size: 14MB to 15MB (32MB) System_Disk size: 30MB to 31MB
		Watch dog problem (If the hardware watchdog is enabled, it will disable OS watchdog and reboot.)
		Important notices: <ul style="list-style-type: none"> This version OS may format your System_Disk after updating OS image! Please backup your System_Disk before updating OS image!
1.2.0.1	1.0.5.0	Quicker and Indusoft can be worked normally. Add LPCD (Local Procedure Call Driver) to system register for Quicker and Indusoft.
1.2.1.0	1.0.5.2	Support HP Laser Jet Printer for USB and Network
1.3.0.3	1.0.5.5	None
1.3.0.4	1.0.5.6	Fix: COM2/3/4 is affected by i-8017HW,i-8094H
		Fix: CPU loading becomes 50% even there is no program running
		Fix: Can not run programs for more than 3 days
		Important notices: <ul style="list-style-type: none"> Slot Interrupt number for I/O module has redefined. (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)

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1.4.1.0	1.0.6.1	Fix USB problem (Some USB hub cannot be detected by WinPAC in the booting phase)
		Fix LAN1/LAN2 problem (LAN1/LAN2 sometimes cannot be activated in the booting phase)
		Important notices: <ul style="list-style-type: none"> ■ WINPAC270_yyyymmdd_Ver.x.x.x.x_xx.bin changed to WPppppp_yyyymmdd_Ver.n.n.n.n_xx.bin ■ WINPAC270_yyyymmdd_Ver.x.x.x.x_xx.exe changed to WPppppp_yyyymmdd_Ver.n.n.n.n_xx.exe ■ SQL CE 3.5 related DLL files are moved from \Windows to \System_disk
1.4.2.1	1.0.6.1	Add ActiveSync program to synchronize WinPAC with either a desktop PC Note: ONLY allow COM4(RS232) connection
		Provide 5 accounts and passwords for FTP/Telnet authentication (Windows CE Authentication Services) Note: Configuration by WinPAC utility (V2013 or later)
		VBScript 5.6 (Add VBScript 5.6 :MsgBox and InputBox support")
		Important notices: <ul style="list-style-type: none"> ■ The WatchDog API will work correctly, and the latest version of WinPACSDK.dll(V1.0.9.3 or later), Eboot (V1.0.6.1 or later) and OS (V1.4.2.0 or later) must be updated to WP-8x4x
1.5.0.1	1.2.0.1	Improves the communication stability on LAN2
		Changes file system of System_Disk from FAT to transaction-safe TFAT

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Provides an option to retain current registry after updating OS image by executing the .exe file.

Important notices:

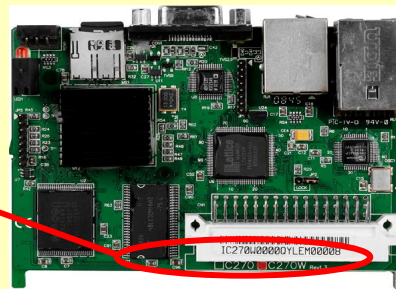
1. Changing the file system from FAT to TFAT will cause the System_Disk lost.
 - Update the OS by executing the .exe file: the System_Disk will be back up to the microSD before the updating, and be restored after the updating is done. The whole processes are performed automatically.
2. The Intel 95ns J3 Flash chip was phased out, WP-8x4x replaces it with a 105ns J3 Flash chip since 2010, April, 6th. But the new J3 Flash chip is not 100% compatible to the original one. Thus the OS and Eboot for WP-8x4x must be updated to version 1.5.0.1 and 1.2.0.1 to support both version of the Flash chip.

And please note, the older versions of OS and Eboot don't work on the WP-8x4x that is equipped with the new J3 Flash chips. Don't install the earlier OS and Eboot to it, else it will not boot.

	Old J3 Flash Chip (75ns)	Original J3 Flash Chip (95ns)	New J3 Flash Chip (105ns)
CPU board Version	C270 Rev X.X	C270W Rev 1.4 or earlier	C270W Rev 1.9 or later

CPU board Version

C270 C270W Rev 1.X



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		Old J3 Flash Chip (75ns)	Original J3 Flash Chip (95ns)	New J3 Flash Chip (105ns)			
		Eboot (Ver.1.0.6.1 and earlier)	Ok	Ok	Not working		
		Eboot (Ver. 1.2.0.1 and later)	Not working	Ok	Ok		
		OS (Ver. 1.4.2.1 and earlier)	Ok	Ok	Not working		
		OS (Ver. 1.5.0.0 and later)	Not working	Ok	Ok		
1.5.0.2	1.2.0.1	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)					
		Old J3 Flash Chip (75ns)	Original J3 Flash Chip (95ns)	New J3 Flash Chip (105ns)			
		Eboot (Ver.1.0.6.1 and earlier)	Ok	Ok	Not working		
		Eboot (Ver. 1.2.0.1 and later)	Not working	Ok	Ok		
		OS (Ver. 1.4.2.1 and earlier)	Ok	Ok	Not working		
		OS (Ver. 1.5.0.0)	Not working	Ok	Ok		
		OS (Ver. 1.5.0.2 and later)	Ok	Ok	Ok		
Add a service that enables automatic synchronization of system time.							
Add support for a 64Bit OEMQueryPerformanceCounter.							
1.6.0.1	1.2.1.0	The OS support the MXIC MX28GL256F Flash chip and PXA207M CPU chip.					
		Old J3 Flash Chip (75ns)	Original J3 Flash Chip (95ns)	New J3 Flash Chip (105ns)	MXIC MX28GL256F Flash chip	PXA207M CPU chip	
		Eboot (Ver.1.0.6.1 and earlier)	Ok	Ok	Not working	System_disk can not working	
					USB can not working		

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Eboot (Ver. 1.2.0.1 and later)	Not working	Ok	Ok	System_disk can not working	USB can not working
OS (Ver. 1.4.2.1 and earlier)	Ok	Ok	Not working	System_disk can not working	USB can not working
OS (Ver. 1.5.0.0)	Not working	Ok	Ok	System_disk can not working	USB can not working
OS (Ver. 1.5.0.2 and later)	Ok	Ok	Ok	System_disk can not working	USB can not working
OS (Ver. 1.6.0.1 and later)	Ok	Ok	Ok	OK	OK

Support File (SMB) server.

Support .NET Compact Framework 3.5.

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

Improve, when sets WinPAC_utility->auto execution program, after reboot, the program execute faster than the driver.

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Specification comparison - Part 1

OS Version	Run indicator	.Net Compact Framework	SQL CE 3.5					
			Version	File location				
1.1.0.0	Sometimes flashing	3.5	3.5.5692.0	\Windows				
1.2.0.0	Sometimes flashing	3.5	3.5.5692.0	\Windows				
1.2.0.1	Sometimes flashing	3.5	3.5.5692.0	\Windows				
1.2.1.0	Sometimes flashing	2.0	3.5.5692.0	\Windows				
1.3.0.0	Sometimes flashing	2.0	3.5.5692.0	\Windows				
1.3.0.3		2.0	3.5.5692.0	\Windows				
1.3.0.4	Always light	2.0	3.5.5386.0	\Windows				
1.4.1.0		2.0	3.5.5386.0	\System_Disk				
1.4.2.1	Always light	2.0	3.5.5386.0	\System_Disk				
1.5.0.1	Flashing while defragmenting/formatting the System_disk	2.0	3.5.5386.0	\System_Disk				
1.5.0.2	Flashing while defragmenting/formatting the System_disk	2.0	3.5.5386.0	\System_Disk				
1.6.0.1	Flashing while defragmenting/formatting the System_disk	3.5 and 2.0	3.5.5386.0	\System_Disk				

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Specification comparison - Part 2-1

Support Un-support

OS Version	System_disk		VGA Resolution		External Touch Panel	Multi-port driver for i-811xW i-814xW	"COM" prefix name for multi-serial modules	Visual studio on-line debug		SDHC		Support WP-814x
	Support 15MB spaces	Support 30MB spaces	640*480	800*600				VS2005	VS2008	Maximum 16GB	Maximum 32GB	
1.1.0.0												
1.2.0.0												
1.2.0.1												
1.2.1.0												
1.3.0.0												
1.3.0.3							MSA/MSB					
1.3.0.4							MSA/MSB					
1.4.1.0							MSA/MSB					
1.4.2.1							MSA/MSB					
1.5.0.1							COM and MSA/MSB					
1.5.0.2							COM and MSA/MSB					
1.6.0.1							COM and					

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						MSA/MSB				
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Specification comparison - Part 2-2 Support Un-support

OS Version	Multi-language UI	Multi-language keyboard layout	Large software keyboard	Turn on/off the display by Power management	ActiveSync (Serial Port)	FTP/Telnet Authentication	Rotary Switch5/6 (VCEP/DCON)	SNMP	Support File (SMB) server
1.1.0.0									
1.2.0.0									
1.2.0.1									
1.2.1.0									
1.3.0.0									
1.3.0.4									
1.4.1.0									
1.4.2.1									
1.5.0.1									
1.5.0.2									
1.6.0.1									

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Specification comparison - Part 2-3

Support Un-support

OS Version	Device Management ISAPI Extension	Web Server Administration ISAPI	System_Disk FAT file system	System_Disk TFAT file system	Network ID to access network resources	SNTP	Support for a 64Bit OEM QueryPerformanceCounter.
1.1.0.0							
1.2.0.0							
1.2.0.1							
1.2.1.0							
1.3.0.0							
1.3.0.4							
1.4.1.0							
1.4.2.1							
1.5.0.1							
1.5.0.2							
1.6.0.1							

WP-8x4x Important History of Eboot

Eboot Version	Statement
1.0.5.0	None

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1.0.5.2	None
1.0.5.4	None
1.0.5.6	Date of the Eboot cannot be saved to EEPROM. This makes the information shown on WinPAC Utility is always "FFFFFF".
1.0.6.1	Fix: The month number bug of Eboot
	Fix a bug of EEP_SaveEbootVersion (Show MAC address correctly)
1.2.0.1	The Serial number can not be read caused by the Serial number chip failed or damaged, and the serial number will be FF-FF-FF-FF-FF-FF-FF-FF (The serial number can be obtained from the System Information of WinPAC utility)
1.2.1.0	Support the MXIC MX28GL256F Flash chip.

Eboot specification comparison

Eboot Version	Support WP-814x								
1.0.5.0	No								
1.0.5.2	No								
1.0.5.4	No								
1.0.5.6	Yes								
1.0.6.1	Yes								
1.2.0.1	Yes								
1.2.1.0	Yes								

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More detailed information:

- WinPAC_8x4x_OS_History.htm: http://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/os_image/
- OS release note: http://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/os_image/

