WP - 8X4X Version 1.4.1.0 Release Note

Overview

The latest version of OS image and Eboot can be updated to WP-814x /WP-844x/WP-884x series controller. SDHC driver replaces the original SD driver. Compared to the previous driver, The microSD capacity can be supported to 32 GB and the read/write

performance of SD will be enhanced in new driver.

 Latest Version: OS Version 1.4.1.0
 Eboot Version 1.0.5.8

New Functions

- 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
- Support Large software Keyboard

Important Notices

- OS image Name is changed
 - WINPAC270_yyyymmdd_Ver.x.x.x_xx.bin changed to WPpppp__yyyymmdd_Ver.n.n.n_xx.bin

WINPAC270_yyyymmdd_Ver.x.x.x_xx.exe changed to WPpppp__yyyymmdd_Ver.n.n.n_xx.exe

- SQL CE 3.5 related DLL files are moved from \Windows to \System_disk. The files include
 - sqlceca35.dll
 - sqlcecompact35.dll
 - sqlceer35en.dll
 - sqlceme35.dll
 - sqlceoledb35.dll
 - sqlceqp35.dll
 - sqlcese35.dll
 - GAC_System.Data.SqlServerCe_v3_5_0_0_cneutral_1.dll
 - System.Data.SqlClient.dll
 - System.Data.SqlServerCe.dll
- The SQL CE function must be able to work on OS with V1.4.1.0 or later version, unless the System disk is updated first.

How to use Multi language OS

Choose multi-language user interface

Click " Control Panel" from Start menu and Click Regional Settings icon

Image: Programs Image: Programs	ts	ol Panel ork and Dial-u	p Connection	www 5 🗟	r.icpdas.com						
C Run	I CE	ar and Start I	Menu						🧶 9:11 A	M 🔽	1
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<u>File V</u> iew	·						10			N?	×
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Certificates	Date/Time	Dialing	Display	Input Panel	Internet Options	Keyboard	Mouse	Network and Dial-up Co	Owner		
P		< 🔥		2	-		۷	20			
Password	PC Connection	Power	Regional	Remove	Storage Manager	Stylus	System	Volume & Sounds			
	connoction		Gotten ngb	riograms	Hanagor			obando			
🀉 🔂 Conti	rol Panel							4	🏨 9:12 A	м 🗭	٩.

Region Language Input	
User Interface Language:	
The option will determine the language used for the menus and alerts.	e , dialogs
English (United States)	~
English (United States) English (United States)	<u>~</u>
English (United States) English (United States) French (France)	
English (United States) English (United States) French (France) German (Germany)	
English (United States) English (United States) French (France) German (Germany) Russian	Cort)

Click "language" tab and choose "Russian" for User interface language.



Click "OK"



Run WinPAC utility and click "Save and Reboot" to save the UI language
--

WinPAC Utility [2.0.0.8]						
File Help Configuration						
Save and Rehoot	FTP Setting	System Inf	formation	Auto Execution	Multi-serial po	r 4 🕨
Reboot Without Save Restore Default Settings Exit WinPAC	Welco This to Dis	ome to u ol will help play Resolu	use Wir you to set tion : 800	NPAC Utility WinPAC - 8000.		
Data Acquisition Syste	m			Setting		
Battery1 : OK	Task Ba	ar Setting:				
Battery2 : OK	Aut	o Hide 🔽	Always (On Top		
Change HTTP document root direc	tory \window:	s/www/ww	wsub to:			
\windows\www\wwwpub\				Settir	ng	

WinPAC Utility [2.0.0.8]
File Help Configuration
System Setting Ethernet Setting FTP Setting System Information Auto Execution Multi-serial por
Welcome to use WinPAC Utility This tool will help you to set WinPAC - 8000.
Warning I X Y Would you like to save the setting and reboot the device ?
Warning! OK × Battery1 : OK X
Battery2 : OK
Change HTTP document root directory \windows\www\wwwsub to:
\windows\www\wwwpub\ Setting



After reboot, the interface language is in Russian. (The menus, dialogs and alerts will be shown in Russian.

How to update Eboot and OS

Refer to E.1. How to upgrade for WinPAC-8000 on WinPAC_8000_user_manual_v1.x.pdf for more detail to updating the Eboot and OS.

Important Notes

- We recommend that you use E.1.1 How to update the Boot Loader and the WinPAC-8000 OS image from files method for quick and easy to update the WinPAC-8000 OS image
- Use E.1.2. How to update the WinPAC-8000 OS image from eshell to update the OS image. Please follow the manual to update the OS step by step (Don't forget to run the step 7)

OS image file updated

New OS image file for Updating the Boot Loader and the WinPAC-8000 OS image from files



Build Number sc- Simplified Chinese

Reversion

Example: WP8441_20090709_Ver 1.0.0.0_en.bin

DD- Day

Hardware

Software

WinPAC SDK Header files and library files for desktop

WinPACSDK (PAC270_SDK.msi) provided an application developer with the information necessary to develop an EVC or .Net Framework application specifically for WinPAC.

- WinPACSDK.h is moved to the C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Include\ARMV4I\ from C:\Program Files\Windows CE Tools\wce500\PAC270\ Include
- WinPACSDK.lib is moved to the C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Lib\ ARMV4I\ from C:\Program Files\Windows CE Tools\wce500\PAC270\Lib

[Warning]

After executed the .msi program, it will show a dialog ask you where do you want to install. We recommend you use the default setting, if you want to change the location, you should check your evc link path match up you setting.

[Description]

This latest version (PAC270_SDK_20090624.msi) includes following files:

- WinpacSDK.lib: 1.0.9.0

- ViewpacSDK:1.0.0.2 (PAC270_SDK.msi can be used for ViewPAC series)

The two files will be copied to c:\Program Files\Windows CE Tools\wce500\PAC270*ICPDAS* \Lib\Armv4i

- WinpacSDK.h: 1.0.9.0

- ViewpacSDK:1.0.0.2

The three files will be copied to c:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS \Include\ Armv4i

Update PAC270_SDK.msi

Install SDK for developing EVC application

Click Custom

d WinPAC270 Setu	p 🔀				
Choose Setup Type Choose the setup type that best suits your needs					
	Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advance Complete All program features will be installed. (Requires most disk spa				
	< <u>B</u> ack <u>N</u> ext > Cancel				

Click Next

d WinPAC270 Setup	
Custom Setup Select the way you want features to be installed.	\mathfrak{G}
Click on the icons in the tree below to change th	e way features will be installed.
Embedded Visual C++ Microsoft .NET Compact Framewor Common	Support for Embedded Visual C++
Documentation	This feature requires 8884KB on your hard drive. It has 1 of 1 subfeatures selected. The
Location: C:\Program Hies\Windows CE Tool	IS (WCESUU (PAC 270) Browse
<u>R</u> eset Disk <u>U</u> sage <	Back Next > Cancel

Install SDK for developing EVC and .Net Framework application

Click Complete button

🗟 WinPAC270 Setup
Choose Setup Type Choose the setup type that best suits your needs
Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advance Complete All program features will be installed. (Requires most disk spa
< <u>B</u> ack <u>N</u> ext > Cancel
r WinPAC270 - Destination Folders
Destination Folders Click Next to install to this folder, or click Change to install to a different folder.

· •
Install WinPAC270 to: C:\Program Files\Windows CE Tools\wce500\PAC270\ <u>C</u> hange
< <u>B</u> ack <u>N</u> ext > Cancel

Important Notes

Build EVC Demo

Load an EVC demo, such as loading

CD\napdos\wp-8x4x_ce50\Demo_V1210\WinPAC\eVC\PAC_IO\Remote\7k87k_a i

The error messages will appear on the EVC IDE environment below.

....\7k87k_ai\7k87k_aiDlg.cpp(8) : fatal error C1083: Cannot open include file: 'winpacsdk.h': No such file or directory



Or

LINK : fatal error LNK1181: cannot open input file 'winpacsdk.lib'



Click Directories tab on the Tools -> Options and add "C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Include\ARMV4I" to

" Directories:" below

Options						? 🛛
Tabs	Debug	Compatibility	Download	Build	Directories	W(1)
<u>P</u> latform	n:	<u>C</u> PUs:			Show directo	ries
PAC270)	▼ Win32 (WCE	ARMV4I)	•	Include files	•
Directo	ries:				<u>ک</u>	< + +
C:\Pro C:\Pro C:\Pro ram Fi	gram Fild gram Fild aram Fild iles\Wind	es\Windows CE es\Windows CE es\Windows CF lows CE Tools\w	Tools\wce500 Tools\wce500 <u>Tools\wce500</u> rce500\PAC27	\PAC270 \PAC270 \ <u>PAC270</u> \ <u>PAC270</u> 0\ ICPDA	\Include\ARMV \mfc\include \atl\include S\Include\ARM	(4) (V4) (
				OK		Cancel

Add C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Lib\ARMV4I

to " Directories:" below

Options				? 🛛
Tabs Debug	Compatibility Down	load Build	Directories	w(🕩
<u>P</u> latform:	<u>C</u> PUs:		<u>S</u> how director	ries
PAC270	▼ Win32 (WCE ARMV	4l) 🔹	Library files	•
Directories:			<u>ن</u> ک	< + + >
C:\Program Fi C:\Program Fi <u>C:\Program Fi</u> Program Files\	les\Windows CE Tools\w les\Windows CE Tools\w <u>les\Windows CE Tools\w</u> Windows CE Tools\wce5	zce500\PAC270\ zce500\PAC270\ <u>zce500\PAC270\</u> 00\PAC270\ ICP	ib\ARMV4I mfc\lib\ARMV4 atl\lib\ARMV4I DAS\Lib\ ARM	4I - V4
		ОК		Cancel

Finish the actions above, and then click "OK" button. Build the project again, and the project can be built successfully.

Deploy warning

If the Error message box appear while the user's EVC program is deployed to WinPAC device using cemgrc.exe. Please install the PAC270_SDK_20090624.msi to fix this problem.

WARNIN	ig	
	The targeted platform PAC270 does not match the connected platform. Continue?	Lange Contraction

Debug WinPAC programs in Visual Studio 2005/2008

The OS image version of the WinPAC series must be V1.3.0.4 or later, and PAC270_SDK_20090225.msi must be installed on the PC.

The following steps are how debugs .Net CF program in VS2005/VS2008 Step 1: Copy the following files to \System_Disk\ICPDAS\System folder on WinPAC-8000

- . Clientshutdown.exe
- . ConmanClient2.exe
- . CMaccept.exe
- _eDbgTL.dll
- . TcpConnectionA.dll

Before copying these files to WinPAC-8000, make sure these files below are the same version.

For example

The version number of all the files below is 8.0.50727.42

1. C:\Program Files\Common Files\Microsoft

Shared\CoreCon\1.0\Target\wce400\armv4i



2. C:\Program Files\Common Files\Microsoft Shared\CoreCon\1.0\Bin

	C:\Program Files\Common Files\Microsoft Shared\C	oreCon\1	.0\Bin	
×	1033	-	ActiveSyncBootstrap.dll 8.0.50727.42 VSD Connection Manager ActiveSy	ConMan2.dll 8.0.50727.42 VSD connection manager
	ConManPS.dll 8.0.50727.42 VSD connection manager proxy/stub	*	DesktopDMA.dll 8.0.50727.42 VSD desktop DMA transport	edbgtl.dll 8.0.50727.42 VSD Managed Debugger Transport
≣	TcpConnectionC.dll 8.0.50727.42 VSD connection manager topc trans]		

3. C:\Program Files\Common Files\Microsoft Shared\CoreCon\1.0\Bin\1033



4. Right click the file and click properties to check the

clientshutdown.exe/CMAccept.exe/ConmanClient2.exe



Select the "Version" tab and Check the File Version



Step 2: On the " Project" menu, click " [Project Name] Properties..." command

File	<u>E</u> dit <u>V</u> iew	Proj	ect <u>B</u> uild <u>D</u> ebug D <u>a</u> ta <u>T</u> ools	Te <u>s</u> t <u>W</u> indow <u>H</u> elp									
PA	🔹 🛅 🔹 🚧 🔓 C50-ARMV4: AR		Add Windows <u>F</u> orm Add <u>U</u> ser Control	🖳 🕨 Debug 💽 Any CPU									
× 10	/create_databa		Add Compo <u>n</u> ent Add <u>C</u> lass Shift+Alt+C	ject Browser									
xodlc	Application Build	•••	Add Ne <u>w</u> Item Ctrl+Shift+A Add Existing Item Shift+Alt+A	Platform: N/A									
	Build Events		New Fol <u>d</u> er Sh <u>o</u> w All Files										
	Debug		Unload Project										
	Resources	49	÷9					Add <u>R</u> eference Add Web Reference	database				
	Reference Pat			Set as StartUp Project Refresh Project Toolbox Items	IT Compact Framework (including Service Packs)								
	Signing												
	Devices*		C <u>h</u> ange Target Platform Upgrade Projec <u>t</u>	rtificate									
		6	create_database Properties										

Step 3: On the "SystemInfo*" tab, unselect "Deploy the latest version of the .NET compact Framework (includeing Service Packs)" check box

Build Sployment Options Build Events Target device:	
Build Events Target device:	
Larget device:	_
Debug PAC50-ARMV4: ARMV4I_Release	
Output file folder: Resources @CSDL_PROGRAM_HULES@Acreate_database	
Reference Paths Deploy the latest version of the .NET Compact Framework (including Service Paths	acks)
igning thenticode Signing	
Evices*	
	Select <u>C</u> er

Step 4: On the "Tools" menu, click "Options…" command

PAC	C50-ARMV4: ARMV4	I_Release 🔹 🛃 🚛		Device Sec <u>u</u> rity Manager Connect to De <u>v</u> ice		
Toolbox			-	Device Emulator Manager		
	Application	Configuration: N/A	19. 19.	Connect to <u>D</u> atabase Connect to <u>S</u> erver		~
	Build	aployment Options		Code Snippets Manager Ctrl+K, Ctrl+B	-	
	Build Events	Target device:	2	Choose Toolbox Items	-	
	Debug	PAC50-ARMV4: ARMV41	RMV4: ARMV4I <u>A</u> dd-in Manager			
	Resources	Qutput file folder: %CSIDL_PROGRAM_FILI		Macros Partner Products Catalog Create GUID Dotfuscator Community Edition WCF Service Configuration Editor		
	Reference Paths	Deploy the latest version				
	Signing	thenticode Signing				
	Devices*	Sign the project output w				
3	201200		- 2	<u>E</u> xternal Tools		Select Cer
				Import and Export Settings Customize		
			-	Options		

Step 5: On the "Options" dialog, select "PAC 270" from the "Show

devices platform" list, and then click the "Properties…" button

Options	?X
 Documents Find and Replace Fonts and Colors Help Import and Export Settings International Settings Keyboard Startup Task List Web Browser Projects and Solutions Source Control Text Editor Database Tools Debugging Device Tools General Devices Form Factors 	Show devices for platform: PAC270 Devices: Save As Rename Delete Properties Default device: PAC50-ARMV4: ARMV4I_Release
	OK Cancel

Step 6: On the "PAC50- ARMV4:ARMV4I_Release Properties" dialog, click the "Configure…" button

PAC50-ARMV4: ARMV4I_Release Properties	? 🛛
Default output location on device:	
Program Files Folder	~
Transport:	
TCP Connect Transport 🔽	<u>C</u> onfigure
<u>B</u> ootstrapper:	
ActiveSync Startup Provider 🛛 👻	Configure
☑ Deject when device is disconnected	
	OK Cancel

Step 7: On the "Configure TCP/IP Transport" dialog, select the "Use

specific IP address" option and type the IP address of WinPAC-8000, and then click the "OK" button

Configure TCP/IP Transport	2 🔀
Use fixed port number:	5655
– Device IP address	
ODbtain an IP address autom	natically using ActiveSync
⊙ U <u>s</u> e specific IP address:	
10.0.9.43	×
	OK Cancel

Step 8: On the "PAC50- ARMV4:ARMV4I_Release Properties" dialog, click the "OK" button

PAC50-ARMV4: ARMV4I_Release Properties	? 🔀
Default output location on device:	
Program Files Folder	*
T <u>r</u> ansport:	
TCP Connect Transport 🛛 💌	Configure
<u>B</u> ootstrapper:	
ActiveSync Startup Provider 🛛 🗸 🗸 🗸	Configure
Detect when device is disconnected	
	OK Cancel

Step 9: On the "Options" dialog, click the "OK" button

Options	? 🛛
 Documents Find and Replace Fonts and Colors Help Import and Export Settings International Settings Startup Task List Web Browser Projects and Solutions Source Control Text Editor Debugging Device Tools General Devices Form Factors 	Show devices for platform: PAC270 Devices: PAC50-ARMV4: ARMV4I_Release Rename Delete Properties Default device: PAC50-ARMV4: ARMV4I_Release PAC50-ARMV4: ARMV4I_Release
	OK Cancel

Step 10: On the WinPAC-8000 controller side, run the "CommanClient2" and the "CMAccept.exe" applications which is located at: \System_Disk\ICPDAS\System

<u>F</u> ile <u>E</u> dit	<u>V</u> iew <u>G</u> o									№? ×
	🏂 🗙 🖸	-								
Address S	ystem_Disk\IC	PDAS\System								~
*	*		*			MS 195		*		
TcpConne	eDbgTL	ConmanCli	ConMan2	CMAccept	clientshut	AutoInit	AutoLoader	WinpacSDK	Sleep	
-	W	-	-	-		-	-			
WinconSDK	WINPAC	PAC8172	PAC8050	PAC8024	pac8017H	UARTCE	17000CE	Wincon	DCONCE	
-	*	*	-							
olece400d	OLECE400	mfcce400d	MFCCE400							
_										_

Step 11: On the "Tools" menu, click "Connect to Device..." command

<u>F</u> ile	<u>E</u> dit	⊻iew	<u>P</u> roject	<u>B</u> uild	Debug	D <u>a</u> ta	Too	ols <u>W</u> indow	<u>C</u> ommunity	<u>H</u> elp
							5	Attach to <u>P</u> roce		Ctrl+Alt+P
							J,	Connect to De	<u>v</u> ice	
							۰.	Connect to <u>D</u> at	tabase	
							氲	Connect to <u>S</u> er	ver	
							G	Code Snippe <u>t</u> s	Manager C	trl+K, Ctrl+B
								Choose Toolbo	o <u>x</u> Items	
								<u>A</u> dd-in Manag	er	
								<u>M</u> acros		•
								Create <u>G</u> UID		
								Dot <u>f</u> uscator Co	ommunity Editio	ac
								<u>E</u> xternal Tools		
							<u>.</u> **	Device Emulat	or Manager	
								Import and Ex	port Settings	
								<u>C</u> ustomize		
								Options		
Step	12: O	n the	" Con	nect to	Devic	e" d	dialo	og, select "	PAC 270)" from

" Platform" list and then click the " Connect" button

Connect to Device	? 🗙
To connect to a physical device or launch an emulator image, select a platform; PAC270 Devices: PAC50-ARMV4: ARMV4I_Release	Cancel

Step 13: On the "Tools" menu, click "Connect to Device..." command



Step 14: Connection established. Then you can debug on line.

FAQ:

If the connection fails shown as follow, Return to Step 10 to do the action below

Connecting	? 🔀
To RAC 50 ADMY4: ADMY41 Polyce'	
Connection failed. ActiveSync is not installed.	
	Close

Run the "ConmanClient2.exe /transport:tcpconnectiona.dll /property:port=5000

/id:Con " at: \System_Disk\ICPDAS\System, and then run the

" CMAccept.exe"



The port number defined on Property:port=5000 must be same with the setting on Step7 (Check " Use fixed port number" and set to 5000)

Configure TCP/IP Transport			? 🗙
☑ <u>U</u> se fixed port number:	5000		Â
O Obtain an IP address automatically	y using ActiveSync		
⊙ U <u>s</u> e specific IP address:			
10.0.9.10			~
		OK	Cancel

Note:

The CommanClient2.exe must run before running CMAccept.exe.

Support large software Key board

The original software keyboard is as follow





Microsoft WordPad															
My Documents															
W	Ingu	t Pan	ei												
WINPAC	Esc	F1	F2 F	=3 F	4 F5	5 F6	F7	F8	F9	F10 F	11 F	12 Ноп	ne End	Prop	
Micr		1	2	3	4	5	6	7	8	9	0	-	H.	BS	
RegView	Tab	q	W	e	r	t	у	u	i	0	р]]	1	
3	Caps Lock	a	S	d	f	g	h	j	k	I	;	i	rel	urn	
TaskMar	Shift	z	×	С	V	b	n	m	1		1	up		pgup	
	Ctrl	win	Alt				84	17.6	ins	del	lt	dn	rt	pgdn	
isqlw35		· · ·					_					* •L	(eybo .argek	ard B	
W V												Ŀ	lide Ir	nput Pa	anel k
Virtual CE													1	5:32	СРМ 🖊 🦉