WP – 8X4X Version 1.3.0.3 Release Note

Overview

The latest version of OS image for WP-8x4x series provides the multi-serial port module driver and configuration using the WinPAC utility Ver.2.0.0.5. The New I/O module including (I-8088W, I-8084W and I-8172W) can be used on WP-8x4x series.

Latest Version: OS Version 1.3.0.3 Eboot Version 1.0.5.5

How to update Eboot and OS

Refer to WinPAC-8000_Version_1.2.1.0_Release_Note.pdf for more detail to updating the Eboot and OS.

Header files and library files for desktop:

WinPACSDK (PAC270_SDK_20090122.msi) provides an application developer with the information necessary to develop an EVC or .Net Framework application specifically for WinPAC series.

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

[Brief Description]
This latest version (PAC270_SDK_20081128.msi) includes following files:
-WinpacSDK.lib: 1.0.7.8
-WinconSDK.lib: 2.2.0.10
The two files will be copied to c:\Program Files\Windows CE Tools\wce500\PAC270\ *ICPDAS* \Lib\
-WinpacSDK.h: 1.0.7.5
-PACERROR.h: 1.0.7.5
-WinconSDK.h: 2.2.0.10
The three files will be copied to c:\Program Files\Windows CE Tools\wce500\PAC270\ *ICPDAS* \Include\

Update PAC270_SDKyyyymmdd.msi

Only Install SDK for developing EVC application. Please click "Custom" button and then click Next button

🕏 WinPAC270 Setuj	2 🔀
Choose Setup Type Choose the setup typ	be 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

id WinPAC270 Setup					
Custom Setup Select the way you want features to be installed.					
Click on the icons in the tree below to change the 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				
	Subteatures require 89MB on you				
Location: C:\Program Files\Windows CE Tools\wce500\PAC270\ Browse Browse					
<u>R</u> eset Disk <u>U</u> sage < <u>E</u>	Back Next > Cancel				

Install SDK for developing EVC and .Net Framework application Click **Complete** button

🛿 WinPAC270 Setu	p 🔀
Choose Setup Type Choose the setup type	pe 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

🗬 WinPA	C270 - Destination Folders 🛛 🔀					
Destinati	Destination Folders					
Click Ne	xt 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>B</u> ack <u>N</u> ext > Cancel					

WinPac_Utility

Latest Version: 2.0.0.5

Backplane battery capacity Indicator



Battery Status

OK: The power is enough.

Need to change(low power): The power is not enough, please change the battery.



Multi-serial port module (i-8114iW/i-8112iw/i-8144iw/i-8142iw) configuration

Install the multi-serial port module on WinPAC8000

		enai port un	Ver been enabled	
WinPAC Utility [2.0.0.5]				
File Help Configuration				
Ethernet Setting FTP Setting S	ystem Information	Auto Execution	Multi-serial port wizard	System Me 🔺 🕨
Slot 0:	Install dr Step1: Step2: Go	iver Set to "File">"Sav	e and Reboot" to enable o	(:Driver enabled) :Driver disabled

Step1: No module in slot and no multi-serial port driver been enabled

Step2: Put an I-8144iw module in slot2.

Step3: Press "Slot scan (Refresh)" button to scan. The driver doesn't yet be enabled and the warning "Mismatch" will flash.

WinPAC Utility [2.0.0.5]			
File Help Configuration			
Ethernet Setting FTP Setting Sys	em Information Auto Execution	Multi-serial port wizard	System Me 🔺 🕨
Slot 0:	Install driver Step1: Set Step2: Go to "File">"Sav	e and Reboot" to enable o	(:Driver enabled) :Driver disabled

Step4: Press "Set" button and "File" \rightarrow "Save and Reboot" to install driver.

WinPAC Utility	[2.0.0.5]				×
File Help Co	nfiguration				
Ethernet Setting	FTP Setting	System Information	Auto Execution	Multi-serial port wizar	d System Me 🔸 🕨
Slot 0: Slot 1: Slot 2: 8144 Slot 3: Slot 4: Slot 5:		Slot2:81 Slot3:81 Slot3:81	44 L 2 3 4	\$ •	:Driver enabled :Driver disabled
Slot 6:	ifresh)	Install dr Step1: Step2: Go	iver Set to "File">"Sav	e and Reboot" to enable	e driver

Save	the Information Auto Evention Multi-serial port wizard Custom Mo
Save and Reboot	stem thior mation Auto Execution Matio serial por CW2ard System Me
Reboot <u>without save</u> Restore Default Settings Exit	Slot2:8144 MSA1 MSA1
Slot 2: 8144	I I I I I I I I I I I I I I I I I I I
Slot 3:	
Slot 4:	
Slot 5:	
Slot 6:	Install driver
Slot 7:	Step1: Set
Slot scan (Refresh)	Step2: Go to "File">"Save and Reboot" to enable driver

Step5: After reboot, the driver will be installed and enabled.

Normal status shown on the figure below

WinPAC Utility [2.0.0.5]			
File Help Configuration			
Ethernet Setting FTP Setting Sys	tem Information Auto Execution	Multi-serial port wizard	System Me 📕 🕨
Slot 0:	 ■ Slot2 ■ MSA1 ■ MSA2 ■ MSA3 ■ MSA4 		:Driver enabled
	Install driver		
Slot 7:	Step1: Set		
Slot scan (Refresh)	Step2: Go to "File">"Sav	e and Reboot" to enable o	triver

Abnormal status shown as follow

(1): The multi-serial port driver has been enabled but no module in slot. The warning "Mismatch" will be shown and flashed.

WinPAC Utili	ty [2.0.0.5]				
File Help	Configuration				
Ethernet Sett	ing FTP Setting	System Information	Auto Execution	Multi-serial port wi	zard 🛛 System Me 📕 🕨
Slot 0: Slot 1: Slot 2: Slot 3: Slot 4: Slot 5:	Misma	tch Slot2	L 2 3 4	Ŕ	:Driver enabled
Slot 6:	(Refresh)	Install dr Step1: Step2: Go	iver Set to "File">"Savi	e and Reboot" to en	able driver

<u>Solution</u>: (Stop the warning "Mismatch")1. Put a module with four serial ports in Slot2 and press "Slot scan (Refresh)" button.

(2): The driver is for modules with four serial ports (For example: I-8114iw/I-8114W/I-8144iW)

WinPAC Utility [2.0.0.5]	×
File Help Configuration Ethernet Setting FTP Setting Sy	stem Information Auto Execution Multi-serial port wizard System Me 💶 🕨
Slot 0:	Image: Slot2 Image: Slot2 Image: MSA1 Image: Slot2 Image: MSA2 Image: Slot2 Image: MSA3 Image: Slot2 Image: MSA3 Image: Slot2 Image: MSA4 Image: Slot2
Slot 6: Slot 7: Slot scan (Refresh)	Install driver Step1: Set Step2: Go to "File">"Save and Reboot" to enable driver

But there is a wrong module in slot. The warning "Mismatch" will be shown and it will flash.

Solution: (Stop the warning "Mismatch") 1. Put a module with four serial ports in Slot2 and press "Slot scan (Refresh)" button.

(3): There is no specified module in Slot2 and some multi-serial port drivers don't yet be installed and enabled. The warning "Mismatch" will be shown and it will flash.

WinPAC Utility [2.0.0.5]				
File Help Configuration				
Ethernet Setting FTP Setting Syste	m Information	Auto Execution	Multi-serial port wizard	System Me 📕 🕨
Slot 0:	Slot2	1 2 3 4 •	<	Criver enabled
Slot scan (Refresh)	Step1:	to "File">"Sav	e and Reboot" to enable	driver

Solution: (Stop the warning "Mismatch") Method1: Remove 8144 and 8142. Put a module with four serial ports in Slot2 and press "Slot scan (Refresh)" Method2: (Re-install driver.) Press "Set" button and then click "File" → "Save and Reboot" to install driver.

Support New I/O Module

Refer to <u>http://www.icpdas.com/products/PAC/winpac/io_support_list.htm</u> for more details regarding the latest **I/O modules support status**

- **1.** Manual Location <u>ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/document/sdk_document/</u>
- 2. Library Location

eVc : <u>ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/sdk/io_modules/evc/</u>..Net : <u>ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/sdk/io_modules/dotnet/</u>

3. Demo Location:

eVC:

ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x ce50/demo/winpac/evc/pac io/local/ .NET :

ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/demo/winpac/dotnet/c%23/pac_i
o/local/

I-8088W Demo

W PWM demo	CK
I-8088W card in 6 slot	Select i-8088W slot 6
	Set PWM Mode Burst Count 👿
	Input Burst Count (0~65535) 5000
Set PWM Duty	
Set Normal integer Duty, for example 50 means 50% duty	Input Hz (1~450000) 5000
O Set x10 integer Duty, for examp 500 means 50.0% duty	le (Input duty (1~99) 66
O Set float Duty, for example 50.0 means 50.0% duty	
Start or Stop PWM	
Start PWM	O Stop PWM
O Set Synchronous PWM	O Stop Synchronous PWM
O Set Hardware Trigger PWM	O Stop Hardware Trigger PWM

I-8084W Demo

Selec	t i-8084W slot index	Slot 3	×		Init 8084	W Lib	Load Config
	Select Channel Mode	Counter Value [Max] [Min]	DI XOR	F.Moc	F.Timeout	.PF Status LPF (JS
H:0	Up/Down Counter 😼	100000	0		10000	1	
H(1	Up/Down Counter 🐱	100000	0		10000		Config Ch0, 1
4:2	Up/Down Counte 💌	100000	0		10000	1	
4:3	Up/Down Counte 💆	100000	o 🗌		10000		Config Ch2, 3
4:4	Up/Down Counte 💌	100000	0		10000	1	
4:5	Up/Down Counter ⊻	100000	0		10000		
4:6	Up/Down Counte 👿	100000	o 🗌		10000		Config Ch4,5,6,
4:7	Up/Down Counte 💌	100000	•		10000		
	Set Channel Mode	Start	Stop		Clear Cou	nter	Exit
Se	t Channel Mode as CHC	Recover Default	Setting	1			

I-8024W Demo

<u>.</u>	
<u> </u>	
+/- 10.0 V (float format)	Analog output
Output Voltage(+/	/- 10.0) Exit
	+/- 10.0 V (float format)

I-8017HW Demo

Step1; S	elect 8017HW slot index		Slot 5			
Step2: 9	Select Input Range		Voltage +/- 10	o V 💌		
S	tep3: Read AI	Single Ended,	Differential Jumper	Differential		
CH:00	1.488	CH:08				
CH:01	-1.476	CH:09				
CH:02	-0.037	CH:10				
CH:03	-0.028	CH:11				
CH:04	-0.005					
CH:05	-0.012	CH:13				
CH:06	-0.008	CH:14	1			
CH:07	, Lo ota				Evit	- I

I-8172W Demo

Select 18172W Slot Index	Slot 3			~	1	Not fou	nd 81	72W at	: slot				
Select Control Port	.												
	115 Ch14	Ch13 C	1h12 Ch	11 Ch10	Ch09	Ch08	Ch07	Ch06	ch05 (ch04 C	h03 Ch0	2 Ch01	ChOO
Ch 2053 DI Group Group 1 🕑 Of	n15 Ch14 IFF OFF	Ch13 C OFF C	ih12 Ch DFF OF	11 Ch10 FF OFF	Ch09 OFF	Ch08 OFF	Ch07 OFF	Ch06 OFF	ChO5 OFF	Ch04 (OFF)	ihas cha OFF I OFF	2 Ch01 : OFF	Ch00 OFF
2053 DI Group Communication Sta	atus												
2054 DIO Group Group 1 💌	Chi DO C DI OF	07 CP	h06 C ☑ [0FF (ihas ch DFF OF	n04 C 2 [7 C	hO3 ∑°	ChO2	Ch01	Chi C	00] :			