XP-8X4X CE6 OS Release Note,

Version 1.3.2.0 [Feb., 23, 2011]

OS Key Features:

Features	Supported	Description
Language of OS	Yes	Windows CE 6.0 Multi-language edition
		English
		• German
		• French
		 Spanish
		Japanese
		 Simplified Chinese
		 I raditional Chinese
NET Compact Framowork 2.5	Voc	
	Vee	
SQL CE 3.3	Yee	SQL CE 3.3 (3.3.3300.0)
	Yee	
Hup Server	Yes	
Teinet	Yes	
Printer	Yes(PCL 6)	For HP Laser Jet printer on USB and
		Ethernet (over the network neighborhood)
Touch Panel	Yes	
Multi-Serial Module	Yes	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)

Table of Contents

OS Version 1.3.2.0 [Feb., 23, 2011]	3
How to configure the service for automatically synchronizing with the internet time serve	ər.5
How to enable/display Power management to control turn the display On/Off	7
How to use the printer on XPAC	9
Save HIVE Registry to Flash	12

OS Version 1.3.2.0 [Feb., 23, 2011]

Abstract

This update fix a problem that some USB devices cause the Watchdog to reset the system repeatedly and also fix COM3/COM4COM5 driver bug. In addition, adds power management function for screen saving, synchronize the system time, etc.

New Features

- Add PM (Power management) function to turn on/off the display. (Disable Power management as the factory default)
- Add a service that enables automatic synchronization of system time.
- Add printer function.
- Add "DCOM Remoting" component for NAPOPC.

Bug Fixed

- Fix COM3/COM4/COM5 driver bug. The previous driver will hang due to the heavy COM3/COM4/COM4 communication.
- Fix a bug of USB host port. Some USB device (keyboard/Mouse/USB touch displayer/USB Hub, etc) sometimes makes the USB host port driver worked abnormally and causes the Watchdog reset the system repeatedly.

Modifications (Changes)

Provide two ways to save HIVE registry to Flash. One is saving to Flash automatically and the other is Manual save. (The default is "Save to Flash automatically)

(Configuration by XPAC utility V1024 or later)

XPAC SDK DLL Version 2.0.0.6 [February, 22, 2011]

Bug Fixed

- Fix a bug that pac_UnregisterSlotInterrupt causes the memory leakage
- Fix pac_GetModuleType bug

XPAC utility Version 1.0.2.8 [Jan., 07, 2011]

Enhancements

Support for LX800 and ATOM series.

New Software

DCON_Utility_CE6: Version 1002

In previous usage for configuring the DCON modules installed on XPAC, It must run DCON_CE on XPAC and need to install DCON utility on PC. Create a connection with two applications via Ethernet and allowed to do the configuration. DCON_Utility_CE6 can be run on XPAC directly and easily without the other PC software.

Location:

1. \System_Disk\Tools\ DCON_Utility_CE6 on XPAC

2. \System_Disk\Tools\ DCON_Utility_CE6 on the shipped CD

modbus_master_tool: Version 100

Refer to the link below for more details

\System_Disk\Tools\modbus_master_tool\version.txt on the shipped CD

Location:

1. \System_Disk\Tools\modbus_master_tool on XPAC

2. \ System_Disk\Tools\modbus_master_tool on the shipped CD

SendToCOM: Version 1.0.0

Communication test for COM ports on XPAC and COM ports of multi-serial modules **Location**:

- 1. \System_Disk\Tools\SendToCOM on XPAC
- 2. \System_Disk\Tools\SendToCOM on the shipped CD

Notepad: Version 1028

A simple text editor for editing the text file

Location:

- 1. \System_Disk\Tools\Notepad on XPAC
- 2. \System_Disk\Tools\Notepad on the shipped CD

VCEP: Version 4207

ICPDAS's remote desktop software for XPAC used to control the XPAC desktop remotely from PC

Location:

- 1. \System_Disk\Tools\VCEP on XPAC
- 2. \System_Disk\Tools\VCEP on the shipped CD

How to configure the service for automatically

synchronizing with the internet time server

Step 1: Execute the XPAC utility on the desktop and click the page for "General".Step 2: Click the "Configure" button.



Step 3: Enter the domain name for the time server.

Step 4: Enter a value for the Synchronization frequency.

Step 5: Check "Automatically synchronize with an internet time server" check box.



Step 6: Click the "File->Reboot" menu option.

	File Help			
	Save			
	Save and Reboot			
0	<u>R</u> eboot			
	Restore Otility Default Setting			
	E <u>x</u> it			

Step 7: After rebooting, the service for automatically synchronizing with the internet time server will execute and update the system time after connecting to the internet.
Step 8: Click "Update Now" button to immediately update the system time.

Internet Time 1.0.0.1 📃 🗖 🗙				
Step1: Server: pool.ntp.org				
Step2: Autoupdate Frequency: 1440 minute				
Step3:				
\checkmark Automatically synchronize with an internet time server				
Update Now				
Step 4:Go to "File">"Save and Reboot" to enable driver				
Auto update running				

How to enable/display Power management to

control turn the display On/Off

The OS have 4 different power states that will be the four states of the internal power manager state machine. The four states are "On /User Idle/System Idle/Suspend" The transition from On to User Idle and User Idle to Suspend is done after timers expirations. **The factory default of power management set as the disable**.

Display off (On to System Idle status)

In this version of XPAC, the display will be turned off automatically, while the system state is system idle.

Recovery Display (System Idle to On status)

If you do nothing on XPAC after 6 minutes (1 user idle time + 5 system idle time, the display will turn off. You can move mouse or press the keyboard button to wake up the display (turn the display on)

Modified the system idle timeout

Step1: Click Start→Settings→ Control Panel→Power→Schemes



Step2: Select AC Power from Power Scheme

Step3: Modified the time value from "Switch state to System Idle"

Note: The default value for system Idle is 0 minutes (Never).

Power Properties	OK ×			
Battery Schemes Device Stat	us			
Power Scheme:	щ			
AC Power 💌	2			
Switch state to User Idle:				
After 1 minute				
Switch state to System Idle:				
After 5 minutes	-			
Switch state to <u>S</u> uspend:				
Never	-			

Disable the display on/off by PM

Step1: Click Start→Settings→ Control Panel→Power→Schemes

Step2: Select AC Power from Power Scheme

Step3: Set the time value to Never on "Switch state to System Idle" and "Switch state to User Idle"

Power Properties 🛛 ? OK 🔀				
Battery Schemes Device Status				
Power Scheme:				
AC Power 🔽 🔊				
Switch state to User Idle:				
Never				
Switch state to System Idle:				
Never 💌				
Switch state to <u>S</u> uspend:				
Never				

Note: The time value 0 of System Idle is to disable this function

How to use the printer on XPAC

Network printer

To use a shared network printer, please perform the following steps:

Step 1: On the Host PC, check the name of the Host PC and the shared printer

- oyocom rio	store Autom	atic Updates	Bemote		
General	Computer Name	Hardware	Advanced		
Wind on th Computer <u>d</u> esc	lows uses the following in ie network. ription:	formation to identify	your computer		
Full computer r	For example: " Computer" ame: ServerName.	Kitchen Computer"	or "Mary's		
Workgroup Touse the Net	ICEDAS COM	t 2200 (RD1) on		merties	E
domain and cre ID.	General Sharing R	ute Aduspood C			
Changes	You can sh enable shar O Do <u>n</u> ot share th O Share this prim Share name: Prir	are this printer with oth ing for this printer, clic nis printer er iterName	her users on your network k Share this printer.	с То	
	Drivers If this printer is s Windows, you r users do not ha the shared print	shared with users runn nay want to install ad ve to find the print dri er.	ing different versions of ditional drivers, so that the ver when they connect to Additional Drivers	, ,	

Step 2: On the XPAC, Run INotePad and open a text file.

Step 3: Set up the printer

- 1. Printer: PCL Laser
- 2. Port: Network
- 3. Net Path: <u>\\ServerName\PrinterName</u>

The "ServerName" is your PC's name or IP.

The "PrinterName" is your printer's shared name of your PC

4. Paper Size: Select the paper size



Test !!!

Port: Network Image: All Contrait Net Path: \\\\RD1-User2\\Anna Image: All Contrait	r: PCL Laser	Print Ran	ge Orientation
Net Path: NRD1-User2\Anna OSelection OLandsca	Network	🖌 💽 🖌	Ortrait
	ath: NRD1-User2\A	nna O Selectio	on O Landscape
Paper Size: A4 Margins (inches)	Size: A4	Margins (i	nches)

USB printer

To use a USB printer, please perform the following steps:

Step 1: On the XPAC, Run INotePad and open a text file.

Step 2: Set up the printer.

- 1. Printer: Hewlett-Packard LaserJet
- 2. Port: LPT1
- 3. Paper Size: Select the paper size



Print			? OK 🗙
Printer:	Hewlett-Packard LaserJ 🔽	Print Range	Orientation
Port:	LTP1 🔽	 All 	Portrait
Net Path:		Selection	O Landscape
Paper Size:	Α4 🔽	Margins (inches)	-
Advance	ed Draft Mode	Left: 1.25" F	Top: 1" Bottom: 1"

Note: XPAC only supports HP Laser Jet Printers which support PCL6 drive .

Save HIVE Registry to Flash

Default setting: Auto Save To Flash

The OS version of earlier than V1320 only provide one way for saving HIVE Registry to Flash. While the operation of writing the registry is finished (Called RegCloseKey in programming), the registry will be saved to Flash automatically. In general operations, such as modifing the settings of Power managment, and tetc on control panel or modifing the settings on XPAC utility. The settings of registry will be saved automatically by system after modifing. The setting of registry will not be lost even power off.



The OS version of V1320 or later don't only provide "Auto Save to Flash" function, but also provide the other way for saving the registry to Flash manually. The difference with the first way is that the registry will not be saved to Flash after calling RegCloseKey in programming. Correspondingly, The modfied settings in Power managment, Regional Settins or etc on Control panel aren't saved. The user need to run File->Save and Reboot or File->Reboot after operating, or else the settings will be lost.

XPAC Utility [1.0.2.6]	
File Help Save Save and Reboot Reboot	n Auto Execution Rotary Execution M
Restore Utility Default Settings	Welcome to use XPAC Utility This tool will help you easy to use XPAC CE series. Task Bar setting: Auto Hide Always On Top
XPAC WINCE Series Industrial Control Products Data Acquisition Systems	HIVE Registry: O Auto Save To Flash (Default) Maunal Save To Flash
Configure the synchronization with a time server	Configure