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# How to update the OS image for the XP-8000-Atom-CE6

Applied to:

Platform	OS version	XPAC utility version
XP-8000-Atom-CE6	All versions (WinCE6)	All versions
XP-8000-CE6	N/A	N/A

N/A: Not applicable to this platform and OS.

XP-8000-Atom-CE6 update is part of the XP-8000-Atom-CE6 services for providing additional and more efficient features and functionality for the XP-8000-Atom-CE6 operating system.

There are two ways to update the XP-8000-Atom-CE6:

### i. Only update the OS image and the necessary files

Each release will contain new features improved, reliability and application compatibility, enhanced security, and more. Before downloading any release files, we highly recommend that you read the release notes, which contains all the details of this release.

Please refer to the documents at <u>ftp://ftp.icpdas.com/pub/cd/xp-8000-</u> <u>ce6/os\_image/</u> for more details.

#### ii. Reinstalling the XP-8000-Atom-CE6

If you don't wish to update the OS image, you can install a new version of the XP-8000-Atom-CE6 OS on simply your device. In addition to updating the OS image, the System\_disk will also be updated.

The XP-8000-Atom-CE6 can be reinstalled using the XP-8000-Atom-CE6 Rescue Utility. Before reinstalling the XP-8000-Atom-CE6, make sure the necessary update files are available on your CF card.

The necessary files can be obtained from: <a href="http://ftp.icpdas.com/pub/cd/xpac-atom-ce6/rescue/">http://ftp.icpdas.com/pub/cd/xpac-atom-ce6/rescue/</a>

Caution:

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- 1. Before installing the XP-8000-Atom-CE6, please check that you have backed up your data.
- 2. Ensure that your XP-8000-Atom-CE6 is running in normal mode (i.e., the rotary switch is in position 0) when installing the XP-8000-Atom-CE6.
- 3. If you intend to update your OS to version 1.0.0.1 or later, you must check that your BIOS is compatible version as BIOS version R1.00.E1 or later is required. You can determine the BIOS version by checking the details displayed on the boot screen the initial during initial boot sequence up, as described on page 12, and you can refer to page 13 for details of how to update the BIOS.

# Only updating the OS image and necessary files

## To update the OS image only, please follow the steps below

Step 1 Download the latest version of the XP-8000-Atom-CE6 OS image, NK.bin,

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which can be obtained from the ICP DAS web site at:

<u>ftp://ftp.icpdas.com/pub/cd/XP-8000-Atom-CE6/rescue/ce6/nk.bin</u>

- Step 2 Replace the older XP-8000-Atom-CE6 OS image, which is pre-installed on the XP-8000-Atom-CE6, located and should be in the "\System\_Disk" folder.
- Step 3 Replace all files located in the "\System\_Disk\icpdas" folder on the XP-8000-Atom-CE6 device with all files from ftp://ftp.icpdas.com/pub/cd/xpac-atomce6/system\_disk/icpdas/

Step 4 After replacing the image and Rebooting the device, the XP-8000-Atom-CE6 OS image will have been updated completely

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## Reinstalling XP-8000-Atom-CE6

### Warning:

- The XP-8000-Atom-CE6 showed on **normal mode**, which means that the **rotary switch showed be in position 0**, before restoring the XP-8000-Atom-CE6 to factory default setting.

- When reinstalling the XP-8000-Atom-CE6, it will not only clear the built-in flash (System\_Disk), but also restore all files in the System\_Disk folder.

- Before reinstalling the XP-8000-Atom-CE6, please check you have backed up your data.

## **Requirement for reinstalling the XP-8000-Atom-CE6**

Step 1: Download all update files from: <u>ftp://ftp.icpdas.com/pub/cd/xpac-atom-ce6/rescue/</u>

Step 2: Copy the files that were download Step 1 to the root directory of the CF card

To reinstall XP-8000-Atom-CE6, please follow the steps below

Step 1 Move the rotary switch to position 0, i.e., Normal mode.



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Step 2 Re	eboot the XP-8 the "Delete" k	000-Ato ey	m-CE6 and a	access	the BIOS s	etup utility	y by press
			All and a second second	Advanced	BIOS SETUP ( PCIPnP Boot See	UTILITY Curity Chipset	Exit
	0.000 (1998).		delete	en Overview 10S ion :08.00.15 d Date:11/16/10 :1AAAA000		Use [ or [S selec Use [ confi	ENTERJ, [TAB] HIFT-TAB] to t a field. *] or [-] to gure system Time
							gare system rime.
A			Proc Inte Spee Coun	<b>essor</b> 1(R) Atom(TM) C d :1100MHz t :1	PU 2510   ₽ 1.10GHz		gute agatem rime.

Step 3 Select the Boot menu, and then select the "Hard Disk Drives" option and press "Enter".



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# Step 4 Set the 1st Drive to the PS-Flash Module. The PS-Flash Module is also known as the CF card.

	Boot	
Hard Disk Drives		Specifies the boot
ist Drive 2nd Drive	(SRTA:PS-Flash Hodu) (SRTA:PH-268 ATA FI)	available devices.
		<ul> <li>Select Screen</li> <li>Select Item</li> <li>Change Option</li> <li>General Help</li> <li>Save and Exit</li> <li>ESC Exit</li> </ul>

Step 5 Press F10 to save the change to the configuration and exit the setup

Hard Disk Drive	5	Specifies the boot
1st Drive 2nd Drive	ISATA:PS-Flash Modul ISATA:PM-268 ATA FIJ	available devices.
	Save configuration changes and exit	setup?
	[OR] [Cancel]	
		ect Iten
		+- Change Option F1 General Help
		F10 Save and Exit ESC Exit
v02.6	7 (C)Copyright 1985-2009, American Me	gatrends, Inc.

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Step 6 Afte	er restarting tl CE6 Rescue the XPAC_CE	ne devic Utility, as E default	e, the boot s s shown belc partition	equenc w. Typ	ce will launcl e "1" the pre	n the XP-8 ess "Enter"	000-Atom- to create
		 !	lain Henu				
	** the ** res	followin tore defa	ng 3 steps he: wult XPAC_CE (	Lp you DS-	**		
	(1) Step 1: c (2) Step 2: f (3) Step 3: r	reate XPf ormat and eboot	NC_CE default I restore XPA	partiti C_CE to	ion. factory defa	ult OS.	
	(6) Display d	irectory	information (	on built	-in fl <mark>ash</mark>		
Ple	ase enter your	choice:	J.				
Step 7 Wa	ait for several release and a and press "Er default OS se	seconds gain lau hter" to fo tting.	until the def nch the XP-8 ormat and re	ault pa 3000-At store th	rtition is creation com-CE6 Re ne XPAC_CI	ated. The c scue Utility to the fac	levice will /. Type "2" ctory
Step 8 Wa	ait unt <mark>il the XP</mark>	-8000-A	tom-CE6 Re	scue U	tility is laund	ched again	, and then
1	type "3" and p	oress "Er	nter" to reboo	ot the d	evice.		

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# Step 9 Repeat step 1 ~ 4 but set the 1st Drive to PM-2GB-ATA F1, which denotes the Built-in flash memory, and then reboot the XP-8000-Atom-CE6.

	BIOS SETUP UTILITY Boot	
Hard Disk Dri	ves	Specifies the boot
1st Drive 2nd Drive	ISATA:PM-2GB ATA FIJ ISATA:PS-Flash Modul	available devices.
	Save configuration changes and exit setup?	c Select Screen 14 Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit
υθ2	.67 (C)Comunight 1985-2009, American Mer	atrends, Inc.

Step 10 The XP-8000-Atom-CE6 will reset itself to the default setting when the first reboot after the recovery procedure. This process will take about 35 second. After completing the above steps, the XP-8000-Atom -CE6 recovery process is finish.

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## **Restoring the Rescue Disk**

This section describes how to restore the rescue disk should the rescue disk crash or be accidentally formatted.

**Requirements:** Before attempting to restore the Rescue Disk, you should obtain a copy of Symantec Norton Ghost version 11 or later, which is available by contacting Symantec (<u>http://www.symantec.com</u>).

### Step 1 Locale the rescue disk ghost file, Atom\_Rescue\_Disk.gho

ICPDAS supplies a ghost file "Atom\_Rescue\_Disk\_vnnnn.GHO" which can be used to restore the Rescue Disk if crashed, become computed, or has been in advertently formatted (*nnn* indicates the version member of OS image)

The "Atom\_Rescue\_Disk\_vnnnn.GHO" file can be installed from the CD that was provided with the package, or by downloading the latest version from ICP DAS web site. The file can be found at: CD:\XP-8000-Atom-CE6\XP-8000-Atom-CE6\Rescue\_Disk\ ftp://ftp.icpdas.com/pub/cd/XP-8000-Atom-CE6/rescue\_disk/

Step 2 Start Symantec Norton Ghost32 V.11, and then click the "OK" button.



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Step 3 Se	elect "Local" $\rightarrow$	"Disk"→	"From Image	e" from	function me	enu.	
Gh	ost32 11.0 restances a successioner an	ta tetter an	ta katikina sa shatikin	an an an that the state of the	an an an that an		
Sm	mantec Ghost 11.0.2_Conu	right (C) 1998-2	2007 Sumantee Corneral	ion, fill rights	reserved.		
	and another story			asia no rigilis			
						ALC: NO	
	Local Disk	To <u>D</u> isk n To Imag	e				
	GhostCast & Check						
	Options	_					
	E Help E R <sup>°</sup> Quit						
			Syman	tec			
	te film false skytster film false skyter	estar y nar tadem	S of man	and and the second s	a taken katala pala taken	a zavyh	
the state of the s	派到的现在分词的	HERE STAR	的原则的现在分词		的复数形式无外的	的现在分词	

Step 4 The image file to be restored by browsing to the location of the select rescue "Atom\_Rescue\_Disk\_vnnnn.GHO", ghost file that you saved in step 1, and then click the "Open" button.

	Image file nam	ne to restore from	1			
	Look jn:	🖃 D: 1.2: C) NT	'FS drive	▼	<b>€</b>	
		Name	Size		late	
	Atom_R	escue_Disk_v1001.6 :	199,782,354	2012/05/10	01:13:20 AM	
	File <u>p</u> ame: Files of <u>typ</u> e: Image file <u>d</u> es	+.GHO		V	<u>O</u> pen Cancel	
Current nath is	Di\tool\Bestore\8T0M	or prostant of the second of the				

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Step 5 Select the local destination drive by clicking on the drive number for the CF card, and then click the "OK" button.

	a server a server	gright Gov 200		,			
S	elect local des	tination drive	by clicking	on the drive r	umber		-
	Drive	Size(MB)	Туре	Cylinders	Heads	Sectors	
	1	476940	Basic	64601	240	63	
	2	476940	Basic	60801	255	63	
		<u>0</u> K			Cancel		
				Cumo	intec		
			1	OVILLO	unce.		

Step 6 Restore the Atom\_Rescue\_Disk\_vnnnn.GHO ghost file onto the CF card and then click the "OK" button.



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Step 7 A progress indicator will be displayed to indicate the status of the restoration process. Once the progress indicator reaches 100%, the restoration of your rescue disk is complete.

ianteo Ghost 11.0.	2 Copyright (C) 1998-200	r symanice Corpora	ilion. III rights reserve	4
Progress Indicator				
0.r	25%	501	75%	100 X
Statistics			<i></i>	
Percent complete Speed (MB/min)	13		~	
HB copied	22		1	7
Time elapsed	0:04			/
Time remaining	0.25			
Details			-	
Connection type	Local Local Alle FA - ARESCRE BT	States and Set Off	7156 MR	
Destination	Local drive [3], 7359 HB	Ne restractions and	, , , , , , , , , , , , , , , , , , , ,	
Current partition Current file	1/1 Tugets (Fer321, Size 735) VHONDNT/SWSTEN02/080/VERS/	7 HS, NO NIHE B1USA T4		
		~		
		(S) symai	ntec.	
nimusamusaan	1900esen/1900esen	S symai	ntec.	estan muncharses
erstellungsbeskelsteller toring compressed da	1	S syman	ntec.	
er/filler/Claede eller/	1929-1929-194-1940-1929-194-194-194-194-194-194-194-194-194-19	S syman	ntec.	
laring compressed da	10-	S syman	ntec.	
erretures sectory	1-	S syman	ntec. protestering opposed	
lerite compressed da	T	S syman	ntec.	
taring compressed da	Ty (2003 647 (Ty (2003 64)	Syman	ntec.	
for the congressed da	Ty 02035445770200354	Syman	ntec.	
taring compressed da	Ty (2003 644 ( Ty (2003 64) In	Syman	ntec.	
foring compressed da	Ty (2003 647) 57 (2003 64) In	Syman	ntec.	
foring compressed da	17275238558284553709233856555 1a	Syman Syman	ntec.	
foring compressed da	120052389382849537092338958555 1a	Syman Syman	ntec.	
foring compressed da		Syman Syman	ntec.	
foring compressed da		Syman Syman	ntec.	

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<b>low to dete</b> . Power on t keyboard to	he XP-8000 be suspend th	BIOS vers -Atom-CE6 ne boot pro	sion and pres cess.	ss the "Pa	use Break"	key on yc	our PC
. Identity the	version nu	mber, as sh	iown belc	w:			
	Megat	rends					
AMIBIUS(C)2 PQ7-M102 IG CPU : Intel Speed : 1.	906 American P P Sius Rev.:R1 (P) Atom (TM) ( 1) GHz	L.00.E1 ( 201 CPU 2510 @ 1	nc. 20220 : 1.10642				
Press DEL t Press F11 f Initializin 507MB OK USB Device	to run Setup For IBS POPUP ng USB Control (s): 1 Keyboard	lers Dome. 1, 1 Mouse	: ::::::::::::::::::::::::::::::::::::				
Auto-Detect Auto-Detect	ting Pri Naster ting Pri Slave	rIDE Hard Di IDE Hard Di	sk sk				
			Ą	me	rican		
		www.am	i.com	/legat	rends		
		AMIBIOS (	C) 2006 A	merican	Megatrende	s, Inc.	
		PQ7-M102 CPU : In Speed :	IGP BIO tel(R) f 1.10 GH	IS Rev . : R Itom (TM) Iz	1.00.E1 ( CPU 2510 BLO	2012022 @ 1.10	0) GHz
		Press DE	L to rur	Setup			

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## How to update the BIOS

Step 1. Download the latest BIOS image file from ftp://ftp.icpdas.com/pub/cd/xpac-atom-ce6/rescue\_disk/bios\_update.gho

Step 2. Refer to the "Restoring the Rescue Disk" section on pages 8~11 for details of how to restore "bios\_update.gho" to your CF card.

Step 3. Follow Steps 1~5 in the "Reinstalling XP-8000-Atom-CE6" section on pages 3~5 for details of how to boot the device from the CF card.

Step 4. After restarting the device, it will display the BIOS update list, Type "1" to update BIOS.

### Warning:

Please confirm that the power supply to your device isn't disconnected. If the power is supply interrupted while updating the BIOS, the BIOS may become corrupted, which will prevent the device from booting.

(1) Update Bios	
Please enter your choice	
r rease entrer your churce	

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tep 5. Once th heck that all t one, update th nape below, y	ne BIOS update he results are i ne BIOS image ou can safely r your BIOS.	e has bee ndicated file and t eboot you	en complet as either c ry again. I ur XPAC.	ed, the follo ok or done. f the results	owing screer If the result s are the sar Ver. 4, 14	n will be di for any ite ne as sho	splayed. m isn't ok or wn in the
<ul> <li>Copy</li> <li>Bootblock</li> <li>Module che</li> <li>Erasing fi</li> <li>Hriting fi</li> <li>Verifying</li> <li>Erasing Nu</li> <li>Verifying</li> <li>Erasing Bo</li> <li>Hriting Bo</li> <li>Verifying</li> <li>CHOS chech</li> <li>Program en</li> </ul> Please reboo Press any ke -	checksum checksum ecksums lash flash JRAM NVRAM botblock botblock botblock Bootblock sum destroye nded normally of your XPAC	7 Americ ok ok done done done done done done done done and rese e	tting you	Please che shown as c for each ite	All Right	ults are "done"	ed. :
		ICP DAS	Co., Ltd. T	echnical Do	ocument		

Author       Weikai       Version       1.0.1       Date         Step 6. Once the BIOS have been updated and the device relie displayed. Press the "F1" key on your keyboard to reconfig       Image: Control of the configured and the device relies of the configured and the configu	2012/6/25 booted, the f gure your Blo us OK	Page following s OS. 0085	15/16 screen will
Step 6. Once the BIOS have been updated and the device relie displayed. Press the "F1" key on your keyboard to reconfig <b>American</b> CPU : Intel(R) Atom(TH) CPU 2519 @ 1.10GHz Speed : 1.10 GHz Press F11 for BBS POPUP Initializing USB Controllers Done. 507MB 0K USB Device(s) : 1 Keyboard, 1 Mouse Auto-Detecting Pri MasterIDE Hard Disk Auto-Detecting Pri SlaveIDE Hard Disk Auto-Detecting Pri SlaveIDE Hard Disk Auto-Detecting Pri SlaveIDE Hard Disk Pri Master : 208 Aff Flash Disk C A224F0 Ultra DMh Mode-5 Auto-detecting USB Mass Storage Devices 00 USB mass storage devices found and configured. <b>HDS</b> Checkens Bad Press F1 to Run SETUP These F1 to Run SETUP Step 7.Select the "Exit" menu option. <b>Kep 7.Select the "Exit" menu option</b> .	booted, the f gure your Blo us OK	following s OS. 0085	screen will
tep 7.Select the "Exit" menu option. BIOS SETUP UTILITY Main Advanced PCIPnP Boot Security Chips Exit Options	set Exit		
Main Advanced PCIPnP Boot Security Chips Exit Options	set Exit	)	
Exit Options		and the second se	
	Load Optimal De values for all	efault the	
Save Changes and Exit Discard Changes and Exit Select the "Exit" menu	setup questions	<b>3</b> .	
Discard Changes option	F9 key can be u for this operat	used tion.	
Load Optimal Defaults Load Failsafe Defaults			
	← Select Scr 14 Select It Enter Go to Sut F1 General H F10 Save and ESC Exit	reen tem o Screen Help Exit	
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