# CUPC-P200 Series User Manual

# (P200, P220)

[Version 1.0]





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# **Chapter 1. Hardware Specification**

Itom	Model	name
nem	CUPC-P200	CUPC-P220
CPU	Intel ATOM N270 1.6GHz	
Chipset	Intel 945GSE + ICH7M	
Memory	2GB SODIMM DDR2 SDRAM	
Graphic & Display	Intel 945GSE Embedded Gra Support VGA CRT output Support Pivot	phics
LCD	15inch 16.7M Colors, XGA(1024x768), 300cd/m <sup>2</sup>	10.4inch 262K Colors, XGA(1024x768), 300cd/m <sup>2</sup>
Backlight	2Channel CCFL LT : >50,000hr	1Channel CCFL LT : >30,000hr
Ethernet	VIA VT6130 Gigabit Ethernet(	2Port)
Audio	VIA High Definition Audio Audio Out (1Port) MIC In (1Port)	
USB	Universal Serial Bus Support Support USB2.0 Host Control	(4Port) ler
HDD	SATA HDD Interface	
Serial	RS232C Serial (2Port)	
Input Power	DC+12V	
Power Consumption	<32W (2.6A@12V)	<28W (2.3A@12V)
Dimension(mm)	376(H) x 300(V) x 60(D)	280(H) x 300(V) x 60(D)
Weight	5.1Kg	2.5Kg
Operating Temperature	0°C ~ 60°C	

[Table 1] CUPC Hardware Specification



# **Chapter 2. External Parts**



	Name	Description
А	Power/HDD LED	The green LED is turned on, when the power is supplied. The red LED is turned on, when the hard disk is read or written.
В	ATX Power S/W	ATX mode power switch. Boot or exit the system.
С	Ext. Power S/W	The connector which can be linked to external switch. Same function with ATX Power switch
D	Power S/W	Power input ON/OFF
E	DC IN	ø2.5 Adaptor Input Connector (DC +12V)
F	USB Port	USB1/USB2 (USB2.0)
G	VGA Port	VGA output for external monitor.
Н	Audio Out	Sound output for external speaker
I	MIC IN	Microphone input
J	LAN2 Port	Support 100BaseT, with RJ-45 type connector
K	LAN1 Port	Support 100BaseT, with RJ-45 type connector
L	USB Port	USB3/USB4 (USB2.0)
М	COM1 Port	COM1 (RS232C, D-SUB 9Pin Male Type)
N	COM2 Port	COM2 (RS232C, D-SUB 9Pin Male Type)

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# **Chapter 3. Dimensions**

#### 3-1. CUPC-P200 Dimensions



#### [Figure 1] CUPC-P200 Dimensions



#### 3-2. CUPC-P220 Dimensions



[Figure 2] CUPC-P220 Dimensions



# Chapter4. PANEL CUTOUT

4-1 Installation Requirements and Installation



[Installation Requirements]

CUPC	X (Width)	Y (Height)	T (Thickness)	Unit
P200	355	279	1.6 to 12.0	mm
	[13.98]	[10.99]	[0.06 to 0.47]	[inch]
P220	263	210	1.6 to 6.0	mm
	[10.36]	[8.27]	[0.06 to 0.24]	[inch]



# **Chapter 5. Bracket Installation**

#### 5-1. CUPC-P200 Bracket Installation

To fasten CUPC-P200 to an upright panel, the brackets (left, right) are supplied when you purchase P200.



#### \* Procedure \*

- 1) Push and install the CUPC-P200 into your panel.
- 2) Press the bracket as the following directions in two steps.



3) To fix the CUPC-P200 to the panel, fasten the bolts.



#### 5-2. CUPC-P220 Bracket Installation

To fasten CUPC-P220 to an upright panel, the brackets (left 2ea, right 2ea) are supplied when you purchase P220.



#### \* Procedure \*

- 1) Push and install the CUPC-P220 into your panel.
- 2) Press the bracket as the following directions in two steps.



3) To fix the CUPC-P220 to the panel, fasten the bolts.



# **Chapter 6. Input/Output Connectors**

#### 6-1. VGA Output Connector

	Connector	Туре	
	* D-SUB 15Pin	n Female	
	Pin Assigni	ment	
Pin No.	Signal	Pin No.	Signal
1	RED	2	GREEN
3	BLUE	4	_
5	GND	6	GND
7	GND	8	GND
9	DDC VCC (+5V)	10	GND
11	-	12	DDC DATA
13	HSYNC	14	VSYNC
15	DDC CLK	-	_

[Table 2] VGA Output Connector Type and Pin Assignment

#### 6-2. RS232C Input/Output Connector (COM1, COM2, COM3)

	Conne	ector Type	
	() () () () () () () () () () () () () (	3 4 5 7 8 9 B 9Pin Male	0
	Pin A	ssignment	
Pin No.	Signal	Pin No.	Signal
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	_	_

[Table 3] RS232C Input/Output Connector Type and Pin Assignment

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#### 6-3. Power Input Connector



[Figure 3] Power Input Connector Type and Pin Assignment





## Chapter 7. System Restoration

CUPC provides a system restoration solution using Clonix's WinClon, which is included when you purchase the OS Option Package. You can restore the CUPC to its original state or to any state you may have saved using the backup procedure.

#### 7-1. Getting Ready

In order to perform the restoration procedure, the following is needed.

- -CUPC
- -Recovery SDCARD
- -Keyboard & Mouse
- -DC Power(+12V)



### [Figure 4] Getting Ready

Please be sure to use the recovery SDCARD with the WinClon logo.



[Figure 5] Recovery SDCARD

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#### 7-2. ROM Bios Configuration

#### 7-2-1. Changing First Boot Device

After turning on the power, if you press the **[F2]** key on the initial screen, the BIOS Setup Utility will open as shown in Figure 6.

	Phoenix 3	SecureCore(tm) Se	tup Utility	
Main Adv	anced Int	el Security	Boot E	xit
Proton Time		.42.421	It	em Specific Help
System Time: System Date:	[11]	/10/2010]	<tab <ent< td=""><td>&gt;, <shift-tab>, or er&gt; selects field.</shift-tab></td></ent<></tab 	>, <shift-tab>, or er&gt; selects field.</shift-tab>
<ul> <li>IDE Channel</li> <li>IDE Channel</li> <li>SATA Port 1</li> <li>SATA Port 2</li> </ul>	0 Master [No 0 Slave [No [No [WD]	ne] ne] ne] C WD1600BEVT-00A2	3T0-(S)	
System Memory Extended Mem	y: 640 ory: 103	KB B336 KB		
F1 Help 14 Esc Exit ↔	Select Item Select Menu	-/+ Change U Enter Select►	alues P9 Sub-Menu P1	Setup Defaults O Save and Exit

[Figure 6] BIOS SETUP Initial Screen

Select the [Boot] menu.

	Phoenix SecureCore(tm) Setup Ut	ility
Main	Advanced Intel Security Boo	t Exit
Boot	priority order:	Item Specific Help
1: 2: 3:	USB KEY: Generic STORAGE DEVICE (R/F)F USB HDD: IDE HDD: WDC WD1600BEVT-00A23T0-(S3	Keys used to view or configure devices:
4: 5: 6: 7:	USB FDC: USB CDROM: IDE CD:	Up and Down arrows select a device. <+> and <-> moves the device up or down.
8: Exclue	ded from boot order: USB=ZIP:	<pre><f> and <r> specifies the device fixed or removable.</r></f></pre>
:	USB LS120: PCI SCSI: PCI BEU:	<pre><x> exclude or include the device to boot. <shift +="" 1=""> enables or</shift></x></pre>
	Uther USB: PCI: Legacy Network Card	disables a device. <1 - 4> Loads default boot sequence.
F1 H Esc E	elp 14 Select Item -/+ Change Values xit ↔ Select Menu Enter Select > Sub-M	F9 Setup Defaults enu F10 Save and Exit

[Figure 7] Boot Menu



Select the **[USB KEY]** and move it to the top of the list using **[+]** key. Select **[Exit Saving Changes]** in the **[Exit]** menu.

		Phoer	nix Secu	reCore	(tm) Set	up Util	ity	
Main	Advan	ced	Intel	Secu	urity	Boot	Exit	
F:4 C	uing Ch						Item	Specific Help
Exit S Exit D Load S Discar Save C	aving Ch iscardin etup Def d Change hanges	anges g Change aults s	25				Exit Sy save yo CMOS.	stem Setup and ur changes to
F1 He Esc Ex	lp 11 it ↔	Select Select	Item Menu	-/+ Enter	Change Execute	Values Comman	F9 d F10	Setup Defaults Save and Exit

[Figure 8] BIOS SETUP Exit Screen

Select [YES] in the [Setup Confirmation] screen.

	Phoenix SecureCore(tm) Setu	up Utility
Main Adv.	anced Intel Security	Boot Exit
P. 14 Protocol		Item Specific Help
Exit Sauing Exit Discard Load Setup D Discard Chan Save Changes	changes ing Changes efaults ges	Exit System Setup and save your changes to CMOS.
	Setup Confirmation	n
	Save configuration changes ar	nd exit now?
- *	[ <mark>Yes</mark> ] [No]	]
	Space Select Ent	ter Accept

[Figure 9] Setup Exit Confirmation Screen



#### 7-3. Booting with the WinClon SDCARD

Insert the WinClon Recovery SDCARD and turn on the power. The System will begin booting into Windows PE as shown in [Figure10].



After the system boots into Windows PE, WinClon will be executed as shown in [Figure 11]



[Figure 11] WinClon Initial Screen



#### 7-4. Restoration

On the initial WinClon screen, click 'Restore'.



[Figure 12] Restoring Menu Selection

Select the restoration image according to the following steps.



[Figure 13] Selecting Image





Click on the folder icon.

Cinana Auto				
옷는 위치() 내 친근 문서 () 한 하면 () 한 ) () 한 ) () () 한 () () 한 ) () () () () () () () () () () () () (	<ul> <li>CUPC_IMG</li> <li>내 최근 문서</li> <li>네 최근 문서</li> <li>네 제 김 유터</li> <li>국 김 디스</li> <li>국 김 디스</li> <li>이동식 디</li> <li>이동식 디</li> <li>대 특위크 환</li> </ul>	크 (C:) 크 (C:) 스크 (X:)		
	파일 이름(N): 파일 형식(D):	WinClon Backup File	(+,wcl;+,iso)	열기( <u>0</u> ) 취소

[Figure 14] Exploring image file

Upon Hile				1 Para	
찾는 위치(0)	: 😰 CUPC_IMG		1 00		21×1
네트워크 환경				-	N271(Q)
네트워크 환경	파일 이름(N):	p80-kor-20090123			40
네트워크 환경	파일 이름(N): 파일 형식(T):	p80-kor-20090123 WinClon Backup File (+,v	wcl;+,iso)		~취소

#### [Figure 15] Select image file

In the SD card you purchased, you will find an initial restoration image named by CUPC model. If you have performed a backup, you may see your own image, too. Select an image from the list.

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Select the partition you want to restore.

In this example, we will restore the entire disk.

		Check					
Wia System	WinCion 4.0					P	8
w	select a backu	o file to restor	e				
	x:_upc_img\pt	80-kor-20090	123.wd	Trans and the	1	2	
and the second se	Parition 1	File System	Used Size	Min Size	Total Size	-	
: ,	MBR 8	FAT32 LAW	0,00 G 0,00 G	0,00 G 0,00 G	1,46 G 2,35 G 0,00 G		
•						;a	
	-Drive:X:\cupc\c	80-kor-20090	0123.wd			et E	
	1111012003 01					1	GY
	Cancel			<< previous		4 >>	

[Figure 16] Selecting the restoring partition

Click the 'Next' button and select the disk to restore. (Caution: Make sure that you confirm the disk information and check if it says 'Hard Disk')



[Figure 17] Selecting the restoring disk

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Click 'Next' .

· · · ·	WinClon 4.0 Step 3 - Summary Source - Disk Backup %%cupc_imo/p80-kor-20090123.wcl Destination Disk 1 Password	al JS Corv
	Cancel << previous process	

[Figure 18] Restoring Summary Screen

Click 'Process' .



[Figure 19] Continue Screen



#### Click 'Yes' to confirm.



[Figure 20] Restoration Progress Screen

The restoration process will begin. It will take about 4~5 minutes..

				1 22
😵 Wit	WinCion 4.0		A LEVEL DE LEVEL	DO
System	Step 3 - Summary		and the second second	
W	Summarv			
	WinClon			
•	Restoration comple     Diagon particular and a sector text an	eted.		
• •	Please restart your	PC.		
				al
			Ok	15
		100%	- mark lange	E
	Res	toration completed.		OGY
	Cancel	<< previo	process	
A CONTRACTOR OF			AND DESCRIPTION OF	

[Figure 21] Restoration complete

After the restoration is complete, refer to the chapter 7-2-1 to change the CUPC First Boot Device to IDE HDD and reboot.



#### 7-5. Backing Up

You can also use the WinClon utility to backup the system after customizing it to the state you want. This will allow you to restore to your custom state rather than the original state. On the initial WinClon screen, click 'Backup'.

	Click
WinClon 4.0 - www. System Bookup & Bestore & C	Conix.co.kr Kerning Sotution
WinClon 4.	
• Restore	System Backup
• Baghyp	restoration area or external USB, HDD, or local hard
Advance Option     Install	PC Rackin image on stable Windows will be facilitated to restore the
	system in case of windows slow-down or system failure.
	COMFILE

#### [Figure 22] Selecting Backup Menu

Select the disk or partition to back up. In this example we will backup the entire disk. (Caution: For CUPC-P200 series, Disk2 is the HDD. Check the disk size before selecting.)

			Click			
Wile System	WinClon 4.0 Stop 1 - Se	lect a disk or a pa	rtition			20
w	Dick 1 3,90	C: FAT32 0.7/1.50	D: FAT 0.0/2.9	32 0		
-	Disk 2 1.9G	X: NTFS 1.0/1.8G				
	L.	ł				ıe
	Information	Disk 2 [1.9G]				E
1	Cancel	3		<< previous	next >>	

[Figure 23] Selecting the partition and disk to back up



Confirm the selected partition and/or disk.

9	Vis step 1 – Select a disk or a pa	and the second se	2.3
	Disk 1 C. FAT32 0.7/1.50	D: FAT32 0.02.30	
•	Pisk 2 1.90 X: NTFS 1.0/1.80		
•			ıe
	InformationDisk 1 [3.96]		E
	Cancel	<< previous new	at >>

[Figure 24] Confirm the partition and disk to back up

You are now ready to save the disk to an image file. Click the folder icon to locate the image file for saving.

	Click
Wia System	Wincion 4.0
w	Backup Partition or Disk Clone Partition or Disk
	File name C:Whdd1.wc1
-	© Setting
	setting divided backup size (MB)
	Comoression rateD
	Faster speed smaller size
È	Cancel << previous Next >>

[Figure 25] Selecting folder icon



 Image: State of the state

Select the folder and enter a desired file name. Then click the 'Save' button.

[Figure 26] Input the image file name

Click 'Next' .



[Figure 27] Image file determined



If you want to protect your image, enter your password and click 'Next' .



[Figure 28] Password set

Click 'Process' .



[Figure 29] Backup Summary Screen



#### Click 'Yes' to confirm.



[Figure 30] Backup Start Confirmation Screen

The backup process will begin. It will take about 5~6 minutes.



[Figure 31] Backup Progress Screen





When the backup process is finished WinClon will display the newly created image file. To finish, click 'OK' .



[Figure 32] Backup Complete



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