AHP-1083

Intel[®] Atom[™] D2550 1.86 GHz Processor Touch Panel PC With 8.4" TFT LCD

AHP-1083 Manual 2nd Ed. July 2013

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Packing List

Before you begin operating your PC, please make sure that the following materials are enclosed:

- 1 AHP-1083 Touch Panel PC
- 1 Phoenix Terminal Block
- 1 Mounting bracket and screws
- 1 CD-ROM for manual (in PDF format)

If any of these items should be missing or damaged, please contact your distributor or sales representative immediately.

Safety & Warranty

- 1. Read these safety instructions carefully.
- 2. Keep this user's manual for later reference.
- 3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
- 4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.
- 5. Keep this equipment away from humidity.
- 6. Put this equipment on a firm surface during installation. Dropping it or letting it fall could cause damage.
- 7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.
- 12. Never pour any liquid into an opening. This could cause fire or electrical shock.
- 13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- 14. If any of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.

- d. The equipment does not work well, or you cannot get it to work according to the user's manual.
- e. The equipment has been dropped and damaged.
- f. The equipment has obvious signs of breakage.
- DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4°F) OR ABOVE 60°C (140°F). IT MAY DAMAGE THE EQUIPMENT.

FCC



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

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Below Table for China RoHS Requirements 产品中有毒有害物质或元素名称及含量

AAEON Panel PC/ Workstation

			有毒	有害物质或	成元素	
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)
印刷电路板	~		0		0	0
及其电子组件		0	0	0	0	0
外部信号	~		0		0	
连接器及线材			0		0	
外壳	×	0	0	0	0	0
中央处理器			0		0	
与内存			0		0	0
硬盘	×	0	0	0	0	0
液晶模块	×	0	0	0	0	0
光驱	×	0	0	0	0	0
触控模块	×	0	0	0	0	0
电源	×	0	0	0	0	0

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。

备注:

一、此产品所标示之环保使用期限,系指在一般正常使用状况下。

二、上述部件物质中央处理器、内存、硬盘、光驱、触控模块为选购品。

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--------------------	---	--	---	--	--	---	--	--	--	---	---	---	--	---	---	--	--	--	---	---	---	---	--	---	---	---	---	--	---	---	--	--	---	---	---	---	--	---	--	--	--	--	--	--	--	--	--	--	---	---	---	---	---	--	---	--	--	---	---	---	---	--	--	--	--	---	---	--	--	---	---	--	---	---	---	---	--	---	--	--	---	---	---	--	--	---	--	---	--	---	--	---	---	--	---	---	--	---	--	---	---	---	---	---	---	--	---	---	---	-----	---	--	---	--	---	--	---	---	--	---	---	---	---	---	--	---	-----	---	---	--	---	---	--	---	---	---	--	---	---	--	--	---	--	--	---	---

Touch I	Panel	PC
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Chapter

General Information

Chapter 1 General Information 1-1

1.1 Introduction

The AHP-1083 operator panel is an Intel[®] Atom[™] D2550 1.86 GHz processor computer that is designed to serve as a human machine interface (HMI). It is a PC-based system with 8.4" color TFT LCD display, onboard Ethernet controller, multi-COM port interfaces and an audio controller. With a built-in CFast socket, the AHP-1083 is as compact and user friendly as a multi-function computer. In addition, its "fit anywhere" design makes it very flexible and able to be used in many different kinds of installations. It can be VESA 75 mounted or Panel mounted.

For system integrators, this simple, complete, compact and highly integrated system let you easily build an operator panel into your applications. Common industrial applications include factory automation systems, precision machinery, and production process control. It is also suitable for many non-industrial applications, including vending machine, and car park automation. Our operator panel is a reliable, cost-effective solution to your application's processing requirements.

1.2 Specification

System

•	CPU	Onboard Intel [®] Atom™ D2550 1.86 GHz
		Processor
•	System Memory	204pin DDRIII 800/1066 SODIMM x 1,
		Max. 4GB, default 2GB
•	LCD / CRT Controller	Intel [®] NM10 Integrated
•	I/O Port	USB2.0 x 2
		RS-232 x 1
		RS-232/422/485 x 1
		LAN x 2
		VGA x 1
		Power input x 1
		Power button x 1
•	Storage Disk Drive	CFast™ slot x 1 (Easy to swap);
		2.5" SATA HDD bay x 1 (Anti-vibration
		1G)
•	Expansion	Mini card x 1
•	OS Support	Windows CE 6.0, Windows XP Pro,
		Windows XP Embedded, Windows 7,
		Windows Embedded Standard 7, Linux
		Kernel 2.6.3 or above

	Touch Panel PC		A H P - 1 0 8 3
Мес	hanical		
•	Construction	Pla	astic front bezel and aluminum back
		ch	assis
•	Mounting	Pa	anel/ VESA
•	Dimension	16	;"(W) x 12.2"(H) x 2.67"(D)
		(4	07mm x 310.5mm x 67.9mm)
•	Carton Size	20	0.67"(W) x 18.31"(H) x 9.1"(D)
		(4	525mm x 465mm x 230mm)
•	Net Weight	4.4	4 lb (2kg)
•	Gross Weight	6.	16 lb (2.8kg)

Environmental

•	Operating Temperature	32°F ~ 122°F (0°C ~50°C)
•	Storage Temperature	-4°F~158°F (-20°C~70°C)
•	Operating Humidity	5 to 90%@ 40°C, non-condensing
•	Vibration	1 Grms / 5~ 500Hz / operation – With
		HDD
		3 Grms / 5~ 500Hz / operation – With
		CFast
•	Shock	20 G peak acceleration (11 msec.
		duration) – With HDD
•	EMC	CE/FCC Class A
•	Power Supply	DC 12V (Phoenix) (ATX Mode)

		o.	Panel	Touch	
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LCD

•	Display Type	8.4", SVGA, 450 nits, LED backlight
•	Max. Resolution	800x600
•	Max. Colors	262k
•	Power Consumption	7.44W
•	Response Time (msec)	10
•	Interface	Single channel LVDS
•	Luminance (cd/m ²)	450 nits
•	Contrast Ratio	600:1
•	Viewing Angle	80° (H) x 70° (V)
•	Backlight MTBF (Hours)	50,000

Touch Screen

•	Туре	5-wire analog touch panel
•	Light Transmission	> 80%
•	Lifetime	35 million activations

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1.3 Dimension





Hardware Installation

Chapter 2 Quick Installation Guide 2-1

2.1 Panelmount Installation

The display panel can be mounted into the wall. You will need the screws along with the mounting brackets, which be packed in the accessory box. Follow the steps below:

Step 1: Place the operator panel into the wall.

Step 2: Place the mounting brackets and bore the screw on it.

Step 3: Screw mounting kits to fix the operator panel.

Step 4: When the mounting set has been tightened, repeat the Steps above and tighten all mounting sets around the monitor until the monitor has been firmly mounted to the wall.



2.2 Clear CMOS (JP2)

JP2	Function	
1-2	Normal (Default)	
2-3	Clear CMOS	

2.3 COM2 RI/+5V/+12V Selection (JP3)

JP3	Function
1-2	+12V
3-4	RI (Default)
5-6	+5V

Note: Max. Current rating is 0.5A.

2.4 COM Port #2 (CN19)



RS-232 Mode

	Pin	Signal	Pin	Signal
	1	DCDB	2	DSRB
	3	RXB	4	RTSB
	5	ТХВ	6	CTSB
	7	DTRB	8	RIB / +5 Volt. / (+12 Volt.)
	9	Ground	10	N/C
R	S-422	Mode		
	Din	Signal	Din	Signal

Pin	Signal	Pin	Signal
1	TXD-	2	N/C

Chapter 2 Quick Installation Guide 2 - 3

		Touch Panel PC		A H P - 1 0 8 3
_				
_	3	RXD+	4	N/C
	5	TXD+	6	N/C
-	7	RXD-	8	N/C / +5 Volt. / (+12 Volt.)
_	9	Ground	10	N/C
RS-485 Mode				
		lineae		
-	Pin	Signal	Pin	Signal
-	Pin 1	Signal TXD-	Pin 2	Signal N/C
-	Pin 1 3	Signal TXD- N/C	Pin 2 4	Signal N/C N/C
-	Pin 1 3 5	Signal TXD- N/C TXD+	Pin 2 4 6	Signal N/C N/C N/C
-	Pin 1 3 5 7	Signal TXD- N/C TXD+ N/C	Pin 2 4 6 8	Signal N/C N/C N/C N/C N/C
-	Pin 1 3 5 7 9	Signal TXD- N/C TXD+ N/C Ground	Pin 2 4 6 8 10	Signal N/C N/C N/C N/C / +5 Volt. / (+12 Volt.) N/C

2.5 COM Port #1 (CN33)



Pin	Signal	Pin	Signal
1	DCDA	2	RXA
3	TXA	4	DTRA
5	Ground	6	DSRA
7	RTSA	8	CTSA
9	RIA		

2.6 CompactFlash™ Installation

Step 1: Loose the screw of cover to open the CompactFlash™ Slot



Step 2: Insert the CompactFlash[™] to the CompactFlash[™] slot



Chapter 2 Quick Installation Guide 2 - 5



2.7 Hard Disk Drive Installation

Step 1: Loose the eight M3 screws of the rear cover.



Step 2: Loose the three specified M3 screws to get the Hard Disk Drive (HDD) bracket.





Step 3: Insert the HDD to the HDD bracket



Step 4: Fasten the four screws to fasten the HDD and the HDD bracket



Step 5: Connect the SATA cable to the HDD



Touch	Panel PC
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Chapter 3

AMI BIOS Setup

3.1 Setup Menu

Setup submenu: Main

Aptio Setup Utility – Main Advanced Chipset Boot Secu	Copyright (C) 2011 American rity Save & Exit	Megatrends, Inc.
BIOS Information AHP-1083 R1.0(A183AM10) (04/02/2	Set the Date. Use Tab to switch between Data elements.	
BIOS Vendor Core Version Compliancy System Date System Time	American Megatrends 4.6.5.1 UEFI 2.3; PI 1.2 [Mon 04/02/2013] [18:23:50]	
Access Level	Administrator	++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219. Cc	pyright (C) 2011 American M	egatrends, Inc.

bystem Date Day MM:DD:YYYY				
Change the month, year and century. The 'Day' is changed automatically.				
System Time HH : MM : SS				
Change the clock of the system.				

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Setup submenu: Advanced

Aptio Setup Main Advanced Chipset	Utility – Copyright Boot Security Sav	t (C) 2011 American /e & Exit	Megatrends, Inc.
 ACPI Settings SS RTC Wake Settings CPU Configuration SATA Configuration USB Configuration Super IO Configuration H/W Monitor 			<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>
Version 2.1		(C) 2011 American Me	

ACPI Settings					
System ACPI Parameters	System ACPI Parameters				
S5 RTC Wake Settings					
Support S5 RTC Wake Functi	ion				
CPU Configuration					
CPU Configuration Parameters					
SATA Configuration					
SATA Device Options Settings					
USB Configuration					

USB Configuration Parameters			
Super IO Configuration			
IT8783 Super IO Configuration Parameters			
H/W Monitor			
Monitor hardware status			

ACPI Settings

Aptio Setup Utility Advanced	– Copyright (C) 2011 Americar	Megatrends, Inc.
ACPI Settings		Select the highest ACPI sleep
ACPI Sleep State		<pre>state the system will enter when the SUSPEND button is pressed. ++: Select Screen 14: Select Item Enter: Select Item</pre>
		+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Vencion 2 14 1919	Conunicht (C) 2011 Amonican N	

ACPI Sleep State	Suspend Disabled	
	S3 (Suspend to RAM)	
Select the ACPI state used for System Suspend		

S5 RTC Wake Settings

Aptio Setup Utilit Advanced	y – Copyright (C) 2011 A	merican Megatrends, Inc.
Wake system with Fixed Time	[Disabled]	Enable or disable System wake
Wake system with Dynamic Time	[Disəbled]	on alarm event. When enabled, System will wake on the hr::min::sec specified ++: Select Screen 14: Select Ttem Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1215). Copyright (C) 2011 Ame	rican Megatrends, Inc.

Wake system with Fixed	Disabled	
Time	Enabled	
Enable or disable System w	vake on alarm event. Wake	e up time is setting by following
settings.		
Wake up day	0-31	
Select 0 for daily system wake up 1-31 for which day of the month that you would		
like the system to wake up		
Wake up hour	0-23	

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Wake up minute	0-59	
Wake up second	0-59	
Wake system with	Disabled	
Dynamic Time	Enabled	
Enable or disable System v	vake on alarm event. Wake	e up time is current time +
Increase minutes.		
Wake up minute increase	1-5	

CPU Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2011 American	Megatrends, Inc.
CPU Configuration	Totel(R) Atom(TM) CPU	Enabled for Windows XP and Linux (OS optimized for Hunger-Threading Technology)
EMT64	Supported	and Disabled for other OS (OS
Processor Speed	1865 MHz	not optimized for
System Bus Speed	533 MHz	Hyper-Threading Technology).
Ratio Status	14	
Actual Ratio	14	
System Bus Speed Processor Stepping	533 MHZ 30661	
Microcode Revision	269	
L1 Cache RAM	2x56 k	
L2 Cache RAM	2x512 k	
Processor Core	Dual	++: Select Screen
Hyper-Threading	Supported	T4: Select Item
Numer Threading		Enter: Select
Hyper- mreauing		F1: General Heln
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
Version 2.14.1219. Co	pyright (C) 2011 American M	

Options summary: (*default setting*)

Hyper-Threading	Disabled	
	Enabled	
CPU Hyper-Threading Technology support or not		

SATA Configuration

Aptio Setup Ut Advanced	ility – Copyright (C) 2011 Ame	erican Megatrends, Inc.
SATA Port0 SATA Port1	Not Present Not Present	SATA Ports (0–3) Device Names if Present and Enabled.
SATA Controller(s)		
Configure SATA as	[IDE]	
Misc Configuration for hard	disk	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.	1219. Copyright (C) 2011 Ameri	ican Megatrends, Inc.

SATA Controller(s)	Enabled	
	Disabled	
SATA Controller Enable/Disable		
SATA Mode	IDE	

	AHCI		
Configure SATA controller	Configure SATA controller operating as IDE/AHCI mode.		
SATA PORTx	Enabled		
	Disabled		
Enable / Disable SATA Portx			
SATA Portx Hot Plug	Enabled		
	Disabled		
Enable / Disable SATA Portx Hot Plug function			

USB Configuration

Aptio Setup Utility – Advanced	Copyright (C) 2011 American	Megatrends, Inc.
USB Configuration		Enables Legacy USB support.
USB Devices: 3 Drives, 1 Keyboard, 1 Mouse;	, 1 Hub	support if no USB devices are connected. DISABLE option will keep USB devices available
Legacy USB Support		only for EFI applications.
Mass Storage Devices: Generic STORAGE DEVICE 9602 Generic STORAGE DEVICE 9602 Generic STORAGE DEVICE 9602	(Auto) (Auto) (Auto)	
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219. Co	opyright (C) 2011 American M	

Options summary: (*default setting*)

Legacy USB Support	Enabled	
	Disabled	
	Auto	

Enables BIOS Support for Legacy USB Support. When enabled, USB can be

functional in legacy environment like DOS. AUTO option disables legacy support if

no USB devices are connected. DISABLE option will keep USB devices available

only for EFI application

Device Name	Auto
(Emulation Type)	Floppy
	Forced FDD
	Hard Disk
	CD-ROM

If Auto. USB devices less than 530MB will be emulated as Floppy and remaining as

Floppy and remaining as hard drive. Forced FDD option can be used to force a

HDD formatted drive to boot as FDD(Ex. ZIP drive)

Super IO Configuration

Aptio Setup Utility - Advanced	- Copyright (C) 2011 American) Megatrends, Inc.
Super IO Configuration		Set Parameters of Serial Port
Super IO Chip ▶ Serial Port 1 Configuration ▶ Serial Port 2 Configuration	IT8783F	
Restore AC Power Loss	[Power Off]	
		++: Select Screen
		Enter: Select +/-: Change Opt. F1: General Help
		F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219. (Copyright (C) 2011 American M	legatrends, Inc.

Serial Port x Configuration		
Set Parameters of Serial Port >	(
Restore AC Power Loss	Power off	
	Power on	
	Last State	
Set Power on after power fail f	unction	

Serial Port 2 Configuration

Aptio Setup Utility – Advanced	Copyright (C) 2011 American	Megatrends, Inc.
Serial Port 2 Configuration		Enable or Disable Serial Port
Serial Port Device Settings	[Enabled] IO=2F8h; IRQ=3;	(001)
Change Settings	[Auto]	
COM2 Type Select	[RS232]	
		++: Select Screen
		Enter: Select
		+/−: Change Opt. F1: General Help
		F2: Previous Values
		F4: Save & Exit
		ESC: Exit
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Serial Port	Disabled	
	Enabled	
En/Disable specified seria	l port.	
Change Settings	Auto	
	IO=2F8h; IRQ=3;	
	IO=3F8h; IRQ=3,4,5,7,10,11,12;	
	IO=2F8h; IRQ=3,4,5,7,10,11,12;	
	IO=3E8h; IRQ=3,4,5,7,10,11,12;	
	IO=2E8h; IRQ=3,4,5,7,10,11,12;	

Select a resource setting for Super IO device.		
COM2 Type Option	RS232	
	RS422	
	RS485	
Configure COM2 operated as RS232, RS422 or RS485.		

H/W Monitor

Aptio Setup Utilit Advanced	y – Copyright (C) 2011 America	n Megatrends, Inc.
Pc Health Status		
CPU temperature SB temperature Vocre Vcc 1.5V Vcc 3.3V Vcc 5V Vcc 12V SV Dual VBAT	: +47 C : +42 C : +34 C : +1.229 V : +1.524 V : +3.395 V : +5.186 V : +11.902 V : +5.113 V : +3.271 V	+: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219	. Copyright (C) 2011 American	Megatrends, Inc.

Setup submenu: Chipset

Aptio Setup Utility – Copyright (C) 2011 American Main Advanced <mark>Chipset</mark> Boot Security Save & Exit	Megatrends, Inc.
▶ Host Bridge ▶ South Bridge	Host Bridge Parameters ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
version 2.14.1219. copyright (c) 2011 Hilerican M	egatrenus, inc.

Host Bridge	
Host Bridge Parameters	
South Bridge	
South Bridge Parameters	

Host Bridge

Aptio Setup Utility - Chipset	Copyright (C) 2011 American	Megatrends, Inc.
 Intel IGD Configuration ********* Memory Information ******** Memory Frequency Total Memory DIMM#0 DIMM#1 	1067 MH2(DDR3) 4096 MB Not Present 4096 MB	Config Intel IGD Settings. ++: Select Screen T4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219. Co	ppyright (C) 2011 American M	egatrends, Inc.

Intel IGD Configuration		
Enter to set Graphic Configu	uration	
Memory Information		
Show current memory information		

Intel IGD Configuration

Aptio Setup Utility - Chipset	– Copyright (C) 2011 Ameri	ican Megatrends, Inc.
Intel IGD Configuration Auto Disable IGD IGFX - Boot Type LCD Panel Type LVDS1 Backlight Control LVDS1 Backlight Controller Control LVDS1 Fixed Graphics Memory Size	[Enabled] [VBIDS Default] [BOOx600 18Bit] [PHM Normal] [SOX] [Enable] [256MB]	Auto disable IGD upon external GFX detected.
Version 2.14.1219. (Copyright (C) 2011 America	an Megatrends, Inc.

Auto Disable IGD	Disabled	
	Enabled	
Auto disable IGD upon exte	ernal GFX detected.	
IGFX – Boot Type	VBIOS Default	
	CRT	
	1 st LVDS	
Select the Video Device which will be activated during POST		
LCD Panel Type	800x600 18bit	
Select 1 st panel native reso	lution.	

LVDS1 Backlight Control	PWM Inverted	
	PWM Normal	
Backlight control setting		
LVDSx Backlight	100%	
Controller	75%	
	50%	
	25%	
	0%	
Adjust backlight brightness	5	
Control LVDSx	Disabled	
	Enabled	
Dis/Enable LVDSx		
Fixed Graphics Memory	128MB	
Size	256MB	
Configure Fixed Graphics	Memory Size	

South Bridge

Aptio Setup (Chipset	Jtility – Copyright (C) 2011 Ame	rican Megatrends, Inc.
Power Mode > TPT Devices > PCI Express Root Port 0 > PCI Express Root Port 1 > PCI Express Root Port 2 > PCI Express Root Port 3	[ATX Type]	Enable or disable 'It is now safe to turn off your computer.' string
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14	1.1219. Copyright (C) 2011 Ameri	can Megatrends, Inc.

Power Mode	АТХ Туре	
	АТ Туре	
Select AT/ATX Power Mo	de	
TPT Devices		
Configure onboard TPT D	Devices	
PCI Express Port x	Disabled	
	Enabled	
Enable/Disable PCI Expre	ess Port 0 - 3	

TPT Devices

Aptio Setup (Chipset	Jtility – Copyright (C) 2011 Ame	rican Megatrends, Inc.
R8111E #2 Controller R8111E #1 Controller	[Enabled] [Enabled]	Enable or Disable PCIE Lan.
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14	4.1219. Copyright (C) 2011 Ameri	can Megatrends, Inc.

R8111E #x Controller	Disabled	
	Enabld	
R8111E Enable/Disable		

AHP-1083

Boot Configuration

Aptio Setup Utili Main Advanced Chipset Boot	ty – Copyright (C) 2011 America Security Save & Exit	n Megatrends, Inc.
Boot Configuration Quiet Boot Launch 8111E PXE OpROM	[Enabled] [Disabled]	Enables or disables Quiet Boot option
Boot Option Priorities Boot Option #1 Boot Option #2	[UEFI: Generic STOR] [Generic STORAGE DE]	
Hard Drive BBS Priorities		
		<pre>f↓: Select Item Enter: Select +/-: Change Opt.</pre>
		F1: General Help F2: Previous Values F3: Optimized Defaults F4: Cours & Evit
		ESC: Exit
Version 2.14.121	9. Copyright (C) 2011 American	Megatrends, Inc.

Quiet Boot	Disabled	
	Enabled	
Enables or disables Quiet E	Boot option	
Launch 8111E PXE	Disabled	
OpROM	Enabled	
En/Disable PXE boot for onboard 8111E LAN		
Boot Option #X		
XXXX Drive BBS Priorities		
The order of boot priorities.		

BBS Priorities

	Aptio Setup Utility – Copyrigh Boot	t (C) 2012 American	Megatrends, Inc.
Boot Option A Boot Option A Boot Option A Boot Option A Boot Option A Boot Option A	/1 [Device /2 [Device /3 [Device /4 [Device /5 [Device /6 [Device	Modelname] Modelname] Modelname] Modelname] Modelname] Modelname]	Sets the system boot order
			<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
	Version 2.15.1226. Copyright	(C) 2012 American M	egatrends, Inc.

Boot Option #x	Disabled	
	Device name	
Sets the system boot order		

Setup submenu: Security

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc. Main Advanced Chipset Boot <mark>Security</mark> Save & Exit		
Password Description		Set Administrator Password
If ONLY the Administrator's p then this only limits access only asked for when entering If ONLY the User's password is a power on password and m boot or enter Setup. In Setup have Administrator rights. The password length must be in the following range: Minimum length	assword is set, to Setup and is Setup. is set, then this ust be entered to the User will	
Maximum length	20	++: Select Screen
		14: Select Item
User Password		+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.	1219. Copyright (C) 2011 Ameri	ican Megatrends, Inc.

Administrator Password/	Not set	
User Password		
You can install a Supervisor	password, and if you insta	all a supervisor password, you
can then install a user pass	word. A user password doe	es not provide access to many
of the features in the Setup	utility.	
Install the Password:		
Press Enter on this item, a dialog box appears which lets you enter a password. You		
can enter no more than six letters or numbers. Press Enter after you have typed in		
he password. A second dialog box asks you to retype the password for		
confirmation. Press Enter after you have retyped it correctly. The password is		

required at boot time, or when the user enters the Setup utility.

Removing the Password:

Highlight this item and type in the current password. At the next dialog box press

Enter to disable password protection.

HDD Security

Aptio Se	tup Utilit	:y – Copyright (C) 2012 An Security	merican Megatrends, Inc.
HDD Password Descripti Allows Access to Set HardDisk User and Mast User Password need to Enabling Security. Mas be Modified only when with Master Password i HDD PASSWORD CONFIGURA	on : er Passwor be install ter Passwo successful n POST. TION:	and Clear rds. Led for ord can lly unlocked	
Security Supported Security Enabled Security Locked Security Frozen HOD User Pwd Status HDD Master Pwd Status Set User Password Set Master Password	:	Yes No No NOT INSTALLED INSTALLED	++: Select Screen 11 : Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version	2.15.1226	5. Copyright (C) 2012 Amer	rican Megatrends, Inc.

Set User Password/	Not set	
Set Master Password		
You can install a Master and	d User password. Before boo	oting to OS, HDD will be set
to frozen state. On S3 resur	me HDD will be unlocked usi	ng the HDD Password we
entered while system bootir	ng.	
Install the Password:		
Press Enter on this item, a c	dialog box appears which lets	s you enter a password. You
can enter no more than six	letters or numbers. Press En	ter after you have typed in
the password. A second dia	log box asks you to retype th	ne password for
confirmation. Press Enter a	fter you have retyped it corre	ectly. The password is

required at boot time, or when the user enters the Setup utility.

Removing the Password:

Highlight this item and type in the current password. At the next dialog box press

Enter to disable password protection.

Setup submenu: Exit

Aptio Setup Utility – Copyright (C) 2011 American Main Advanced Chipset Boot Security <mark>Save & Exit</mark>	Megatrends, Inc.
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset	Exit system setup after saving the changes.
Save Options Save Changes Discard Changes	
Restore Defaults Save as User Defaults Restore User Defaults	
Boot Override UEFI: Generic STORAGE DEVICE 9602 Generic STORAGE DEVICE 9602	++: Select Screen 14: Select Item Enter: Select +/-: Change Opt.
Launch EFI Shell from filesystem device	F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219. Copyright (C) 2011 American Me	egatrends, Inc.

Save Changes and Reset		
Reset the system after saving the	ne changes	
Discard Changes and Reset		
Reset system setup without sav	ring any changes	
Restore Defaults		
Restore/Load Default values for	all the setup options.	
Save as User Defaults		
Save the changes done so far a	as User Defaults	
Restore User Defaults		

Restore the User Defaults to all the setup options

Touch	Panel	PC
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Chapter

Driver Installation

Chapter 4 Driver Installation 4 - 1

The AHP-1083 comes with a CD-ROM that contains all drivers and utilities that meet your needs.

Follow the sequence below to install the drivers:

- Step 1 Install Chipset Driver
- Step 2 Install VGA Driver
- Step 3 Install LAN Driver
- Step 4 Install AHCI Driver
- Step 5 Install Touch Driver
- Step 6 Install Serial Port Driver (Optional)

Please read instructions below for further detailed installations.

4.1 Installation:

Insert the AHP-1083 CD-ROM into the CD-ROM Drive. And install the drivers from Step 1 to Step 6 in order.

Step 1 – Install Chipset Driver

- 1. Click on the **STEP1-CHIPSET** folder and select the OS folder your system is
- 2. Double click on the **Setup.exe** file located in each OS folder
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

Step 2 – Install VGA Driver

For Windows[®] 7

- 1. Click on the **STEP2-VGA** folder and select the folder of **WIN7_32**
- 2. Double click on the **Setup.exe** file
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

For Windows[®] XP

- 1. Install Framework 3.5
 - Double click on the *dotnetfx35.exe*
 - Follow the instructions that the window shows
 - The system will help you install the driver automatically

- 2. Install IEMGD
 - Double click on the *IEMGDInstalICC.exe*
 - Select the configuration
 - Follow the instructions that the window shows
 - The system will help you install the driver automatically

Due to AHP-1083 resolution is 800 x 600, please select

GCV5-n2_800x600x18bit.

Documents	Driver	License	stk
Utilities	dotaetfx35 NET Framework 3.5 Setup Microsoft Corporation	History 文字文件 1 KB	IEMGDInstallCC IEMGDInstall
1	🗃 IntelR Embedded Media and Graphi	ics Driver Setup	
	Installs driver and application files		
	C Uninstalls driver and application files	: 	
	<u></u>		

AHP-1083

ntelR Embedded	Media and Graphics	Driver Setup	
INTEL SOFTWAI User)	RE LICENSE AGREEME	NT (OEM / IHV / ISV C	Distribution & Single
IMPORTANT · R	EAD BEFORE COPYING	, INSTALLING OR USI	NG.
Do not use or loa "Software") until y By loading or usin you do not wish to	d this software and any a you have carefully read th ig the Software, you agree o so agree, do not install o	ssociated materials (col e following terms and c e to the terms of this Ag or use the Software.	lectively, the conditions. greement. If
Please Also Note	:		
* If you are an Ori Vendor (IHV), or I AGREEMENT ap	ginal Equipment Manufac ndependent Software Ve iplies;	turer (OEM), Independ ndor (ISV), this complet	ent Hardware e LICENSE
* If you are an En LICENSE AGREE	d-User, then only Exhibit / :MENT, applies.	A, the INTEL END-USE	ER SOFTWARE
∙ ∙ Tagree	C I disagree	Install	Close

The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why</u> <u>this testing is important.</u>)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has
passed Windows Logo testing.
passed Windows Logo testing.
passed Windows Logo testing.



If you want to update driver, please uninstall driver first.

Uninstall IEMGD

- 1. Double click on the IEMGDInstallCC.exe
- 2. Follow the instructions that the window shows
- 3. The system will help you uninstall the driver automatically



Step 3 – Install LAN Driver

- 1. Click on the **Step 3 LAN** folder and select the OS folder your system is
- 2. Double click on the **Setup.exe** file located in each OS folder
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically
- Step 4 Install AHCI Driver
 - 1. Click on the **STEP4-AHCI** folder and select the OS folder your system is
 - 2. Double click on the Setup.exe file located in each OS

folder

- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

Step 5 – Install Touch Driver

- 1. Click on the **Step 5 Touch** folder and select the OS folder your system is
- 2. Double click on the **Setup.exe** file located in each OS folder
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

Step 6 – Install Serial Port Driver (Optional)

- 1. Click on the **STEP6-Serial Port Driver (Optional)** folder and select the OS folder your system is
- 2. Double click on the **Serial Patch v1.0.1_Eng.exe** file located in each OS folder
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

<u>Note</u>: If the OS is Chinese version, you may click on *Serial Patch v1.0.1. exe* file located in each OS folder.