

iOPS-18

User Manual

2013 Oct V1

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Safety Information

Your iOPS-18 is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water.
- Set up the system on a stable surface. Do not secure the system on any unstable plane.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- Slots and openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation.
 Never insert objects of any kind into the ventilation openings.
- This system should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Use this product in environments with ambient temperatures between 0°C and 40°C.
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.
- DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THESTORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 80° C (176° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows. Always unplug all power, and network cables from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
 - > The power cord or plug is damaged.
 - Liquid has been spilled into the system.
 - The system does not function properly even if you follow the operating instructions.
 - The system was dropped or the cabinet is damaged.

Lithium-Ion Battery Warning

CAUTION: Danger of explosion if 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.

NO DISASSEMBLY

The warranty does not apply to the products that have been disassembled by users

WARNING HAZARDOUS MOVING PARTS KEEP FINGERS AND OTHER BODY PARTS AWAY



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CHAPTER 1 INTRODUCTION

1.1 General Description

The OPS signage player iOPS-18 is an Open Pluggable Specification (OPS) compliant signage player powered by the AMD G-Series Dual-Core APU T56N with AMD A50M Controller Hub chipset. Compliant with the Open Pluggable Specification (OPS), its slot-in module design effectively lowers deployment and field maintenance costs to simplify device installation, usage, maintenance and upgrades. Its slot-in module is connected via a JAE 80-pin connector, and includes the HDMI, DP, UART, and USB2.0 signals. The player-screen communication interface via UART and HDMI CEC provides status reporting and control, and also supports digital audio/video signals via HDMI or display port, for picture-perfect content reproduction. Also supports 1x Giga LAN, 1x COM ports, and 2x USB2.0 ports giving a great selection for data communication in display applications. The entire design makes digital signage applications more intelligent and connected.





1.2 System Specification

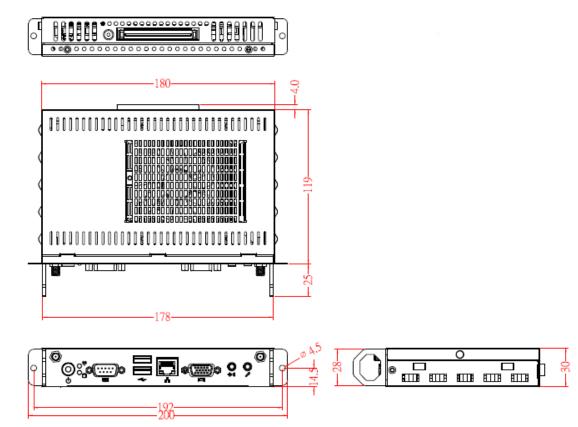
1.2.1 Hardware Specifications

Model Name	iOPS-18
System Mainboard	iOPS-18MB
CPU	AMD G-Series Dual-Core APU (Accelerated Processing
	Unit):T56N=1.65GHz @ 18W TDP
Chipset	AMD A50M Controller Hub
Memory	1 x DDR3 1333MHz SO-DIMM 204PIN (Max. 4GB)
I/O Interface	1 x OPS connector (JAE TX 25, Pin definition follow Intel
	OPS Spec)
	1 x D-Sub
	1 x Gigabit LAN (RJ-45)
	2 x USB2.0 compliant
	1 x COM port (RS-232)
	1 x Power button
	1 x Line-In/Line-out
Storage	2.5" Open-frame SSD
Expansion Slots	1 x Mini PCI-E(x1) slot for Wi-Fi, Bluetooth, TV tuner
	options
Power Supply	N/A
Construction	Aluminum + SGCC (steel)
Chassis Color	Black
Mounting	Open Pluggable Specification
Dimensions	200mm(W) x 119mm(D) x 30mm(H)
	7.87"(W) x 4.69"(D) x 1.18"(H)
Operating Temperature	0°C~ 40°C (32°F~104°F)
Storage Temperature	-20° ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	SSD: 5 grms / 5~500Hz / random operation
	HDD: 0.25 grms / 5~500Hz / random operation
Certification	CE, FCC

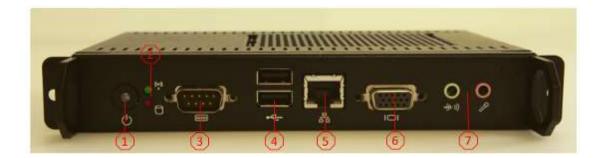
•This specification is subject to change without prior notice.

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1.2.2 Dimensions



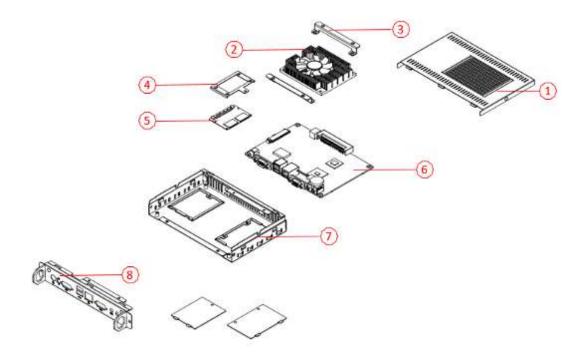
1.2.3 I/O View



Part No.	Connector	Part No.	Connector
1	Power button	5	Gigabit LAN (RJ45)
2	Power/HDD LED Indicator	6	D-Sub
3	RS-232 COM port	7	Line-in/Line-out
4	2.0 USB port		



1.3 Exploded view of the iOPS-18 assembly



1.3.1 Parts description

Part No.	Description	Part No.	Description
1	Top cover	2	Fan
3	Fan bracket	4	SSD bracket
5	SSD	6	iOPS-18MB
7	Base	8	I/O cover

1.4 Packing List

Part NO.	Description
1	Driver CD

1.4.1 Optional Items

Wifi solution	Description	Icon
QCOM wifi	Wireless LAN Card; 802.11 B/G/N+BT Half Card	
module	[Q802XKN3B] RoHS (A008WIRELESS00700P)	
External	Wifi Antenna (A055RFA02C2M20800P)	CON RELATION
Antenna	Antenna	
Internal cable-1/2	From Wifi module to Rear/Front panel (A055RFA0000021000P/A055RFA0000032000P)	LO
Bracket	MPCIE-EXT V-B1 Bracket, RoHS ;Extend Half to Full size. (SC2MPCIEEXT0B1100P)	
3G solution	Description	Icon
ZU 202	Wireless; 3.75G UMTS/HSPA [ZU202] RoHS (A008WIRELESS00520P)	
ZU 200	Wireless; 3.75G UMTS/HSPA AND GPS Module [ZU200] RoHS (A008WIRELESS00510P)	
Cable	Cable; Antenna-2 30CM P 2pcs	Martin Bill
	(C501ANT0200300000P)	0
Antenna	Antenna; 3G, 2pcs (A055ANT0921Q2P000P)	



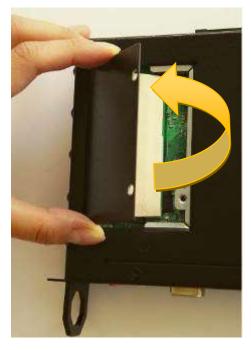
1.5 HARDWARE INSTALLATION

1.5.1 Memory Installation

1. Remove the back cover with two screws as in the picture.



2. Once the two screws are removed, lift the cover forward to remove it.

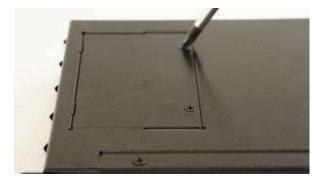


3. With the cover removed, locate the memory slots. Insert the module into the slot. Apply firm pressure to the module until it slips into the slot. While pushing the SO-DIMM into the position, the lock will close automatically.



4. Put the thermal pad on the memory module. Return the back cover and turn the screws.





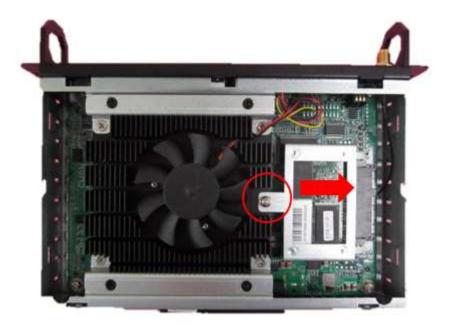


1.5.2 Storage Installation

1. Use a screwdriver to turn the two screws to its unlocked position.



2. Remove the screw as in the picture and change the storage module.

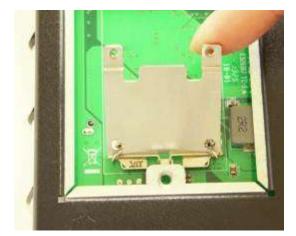


1.5.3 Wireless Installation

1. Remove the back cover with one screw as in the picture.



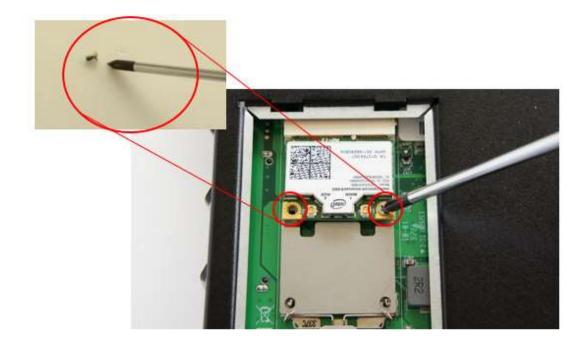
2. Insert the extending kit into the slot. Push the wifi module into the slot.







3. Use a screwdriver to turn the two screws to its unlocked position.



4. The wifi module is fixed as in the picture.



CHAPTER 2 MOTHERBOARD INTRODUCTION

2.1 Motherboard Introduction



Model Name	iOPS-18MB
CPU	AMD G-Series, T56N Dual Core 1.6 GHz
Chipset	AMD G-Series + A50M FCH
Memory	1 x DDR3 1333MHz SO-DIMM 204PIN (Max. 4GB)
Graphic Chipset	AMD Radeon HD 6310
Display	HDMI/DP: (via OPS interconnection)
	VGA
Storage	Support 2.5" SATA HDD/SSD
Ethernet	Realtek RTL8111E-VB-GR 10/100/1000Mbps
	(1 x RJ-45)
Power Supply	Input Voltage: 12-24V (via OPS interconnection)
PWR Consumption	Ave 18W, Max 30W
OS Support	Windows7, Windows XP with SP3, Windows XP
	Embedded, Linux
Board Dimension	165 x 115 mm



2.2 Connector

2.2.1 Power ON/OFF Button

power ON/OFF button on the front. Push this button to turn the system ON and OFF.



Figure 2.2 Power ON/OFF Button

2.2.2 COM Connector

one D-sub, 9-pin connector, serial communication interface port. The port supports RS-232 mode communications.

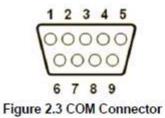


Table 2.1: COM Connector Pin Assignments		
Pin	Signal Name	
1	DCD	
2	RxD	
3	TxD	
4	DTR	
5	GND	
6	DSR	
7	RTS	
8	CTS	
9	RI	

2.2.3 USB 1~2 Connectors

two USB interfa ce connectors, which give complete Plug & Pla y and hot swapping capability for up to 127 external devices. The USB interface is compliant with USB UHCI, Rev. 2.0. The USB interface supports Plug and Play, which enables you to connect or disconnect a device without turning off the system.

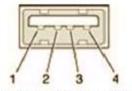


Figure 2.4 USB 1~2 Connectors

Table 2.2: USB 1~2 Connectors Pin Assignments		
Pin	Signal Name	
1	VCC	
2	USB Data-	
3	USB Data+	
4	GND	

2.2.4 Ethernet Connector (LAN)

one RJ-45 LAN inte rface connector, fully compliant with

IEEE802.3u 10/100/1000 Base-T CSMA/CD standards. The Ethernet port provides a standard RJ-45 jack connector with LED indicators to show its Active/Link status and speed status.



Figure 2.5 Ethernet Connector

Table 2.3: LAN Connector Pin Assignments		
Pin	Signal Name	
1	MD10+	
2	MDI0-	
3	MDI1+	
4	MDI1-	
5	GND	
6	GND	
7	MDI2+	
8	MDI2-	
9	MDI3+	
10	MDI3	
11	VCC	
12	ACT	
13	+V3.3 & Link1000#	
14	+V3.3 & Link100#	

2.2.5 VGA Connector

one high resolution VGA interface connected by a D-sub 15-pin connector to support VGA CRT compatible monitors. It supports display resolutions of up to 2048 x 1536 @ 60 Hz.

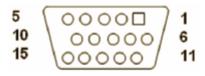


Figure 2.6 VGA Connector

Table 2.4: VGA Co	nnector Pin Assignments
Pin	Signal Name
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	GND
7	GND
8	GND
9	NC
10	GND
11	NC
12	DDC DAT
13	H-SYNC
14	V-SYNC
15	DDC CLK

2.2.6 Audio Connector

Line Out: Stereo speakers, earphone or front surround speakers can be connected to the line out jack.

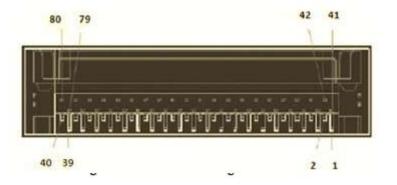
MIC In: Microphone must be connected to MIC In jack.



Figure 2.7 Line-out and MIC Connector

2.3 JAE TX-25 Plug Connector

one 80-pin right angle blindmate JAE TX-25 Plug connector; higher tolerance on mating misalignment enables plug and unplug mechanism



Pin	Cinual Manua	Die	Cine al Manas	
P.III	Signal Name	Pin	Signal Name	
1	DDP_3N	41	RSVD	
2	DDP_3P	42	RSVD	
3	GND	43	RSVD	
4	DDP_2N	44	RSVD	
5	DDP_2P	45	RSVD	
6	GND	46	RSVD	
7	DDP_1N	47	RSVD	
8	DDP_1P	48	RSVD	
9	GND	49	RSVD	
10	DDP_0N	50	SYS_FAN	
11	DDP_0P	51	UART_RXD	
12	GND	52	UART_TXD	
13	DDP_AUXN	53	GND	
14	DDP_AUXP	54	StdA_SSRX-	
15	DDP_HPD	55	StdA_SSRX+	
16	GND	56	GND	



17 TMD_CLK- 57 StdA_SSTX- 18 TMD_CLK+ 58 StdA_SSTX+ 19 GND 59 GND 20 TMDS0- 60 USB_PN2 21 TMDS0+ 61 USB_PP2	
19 GND 59 GND 20 TMDS0- 60 USB_PN2	
20 TMDS0- 60 USB_PN2	
21 TMDS0+ 61 USB_PP2	
22 GND 62 GND	
23 TMDS1- 63 USB_PN1	
24 TMDS1+ 64 USB_PP1	
25 GND 65 GND	
26 TMDS2- 66 USB_PN0	
27 TMDS2+ 67 USB_PP0	
28 GND 68 GND	
29 HDMI_DDC_DATA 69 AZ_LINEOUT_L	
30 HDMI_DDC_CLK 70 AZ_LINEOUT_R	
31 HDMI_HPD 71 HDMI_CEC	
32 GND 72 PB_	
33 +12 V ~ +24 V 73 PS_ON#	
34 +12 V ~ +24 V 74 PWR_STATUS	
35 +12 V ~ +24 V 75 GND	
36 +12 V ~ +24 V 76 GND	
37 +12 V ~ +24 V 77 GND	
38 +12 V ~ +24 V 78 GND	
39 +12 V ~ +24 V 79 GND	
40 +12 V ~ +24 V 80 GND	

CHAPTER 3 BIOS SETUP

3.1 BIOS Introduction

AMIBIOS has been integrated into many motherboards for over two decades. With the AMIBIOS Setup program, you can modify BIOS settings and control various system features. This chapter describes the basic navigation of the BIOS setup screens.

AMIBIOS ROM has a built-in setup program that allows users to modify the basic system configuration. This information is stored in battery-backed CMOS so it retains the setup information when the power is turned off.

3.2 Entering BIOS Setup

Turn on the computer and check for the patch code. If there is a number assigned to the patch code, it means that the BIOS supp orts your CPU

This will ensure that your CPU's system status is

valid. After ensuring that you have a number assigned to patch code, press and you will immediately be allowed to enter setup.

3.2.1 Main Setup

When you first enter the BIOS Setup Utility, you will enter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section. The Main BIOS Setup screen is shown below.

The Main BIOS setup screen has two main frames. The left frame displays all the options that can be configured. Grayed-out options cannot be configured; options in blue can. The right frame displays the key legend.

Above the key legend is an area re served for a text message. When an option is selected in the left frame, it is highlighted in white. Often a text message will accompany it.



185 Information Smollancy	UEFI 2.1 x64	Choose the system default language
uild Date and Time	04/28/2012 12:28:09	Trudinosia
enory Information		
otal Memory	4096 MB (DBR3)	
lysten Date	[Herr 05/07/2012]	
ysten Time	[17:08:35]	
ccess Level	Administrator	<pre>**: Select Screen f1: Select Item Enter: Select */-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save % Exit ESC: Exit</pre>

Figure 3.1 BIOS Main Screen

System Time / System Date Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time must be entered in HH:MM:SS format.

3.2.2 Advanced BIOS Features Setup

Select the Advanced tab from setup screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as CPU configuration, to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. All Advanced BIOS Setup options are described in this section. The Advanced BIOS Setup screens are shown below. The sub menus are described on the following pages.

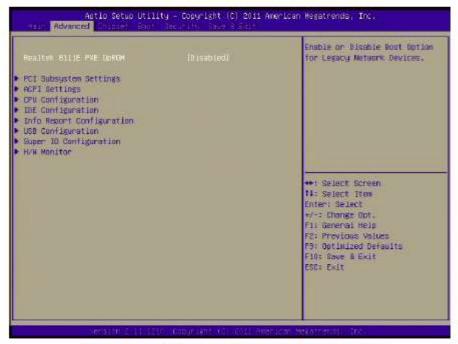


Figure 3.2 Advanced BIOS Features Setup Screen



3.2.2.1 PCI Subsystem Settings

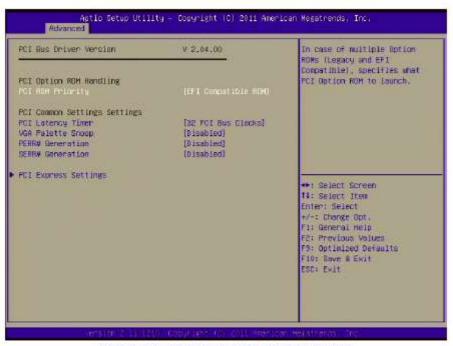


Figure 3.3 PCI Subsystem Settings Screen

3.2.2.2 ACPI Settings

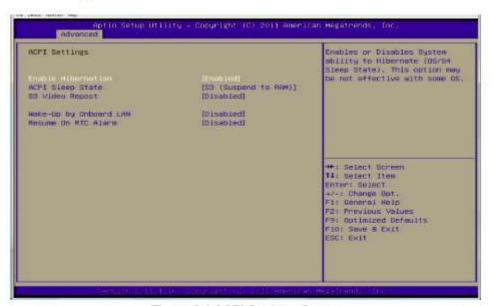


Figure 3.4 ACPI Settings Screen

Enable Hibernation

This item allows you to enable or disable Hibernation status

 ACPI Sleep State This item allows you to select the ACPI state used for system sleep.

- \$3 Video Repost This item allows you to invoke VA BIOS POST on \$3/STR resume
- Wake-up by on-board LAN Enable / Disable RI to generate a wake event.
- Resume On RTC Alarm
- Enable / Disable RTC to generate a wake event.

3.2.2.3 CPU Configuration

The CPU Configuration menu allows you to set the "Limit CPUID Maximum" option, PSS Support, adjust PSTATE (0 to 7), adju st PPC, enable/disable the No-execute page protection function, or enable/disable CPU virtualization (SVM).

i Support (Enabled) 11: Se RTE Adjustment (PState 0) Enter: : Adjustment (PState 0) +/-: 0 Hode (Enabled) F1: Ge	Configuration		Bisabled for Windows XP
11 Dore Running 0 1618 MHz 1350 mW 2 Speed:1600 MHZ Intended Speed:1600 MHZ 3 Speed:800 MHZ 3 Speed:800 MHZ 3 Dorde Patch Level: 5000028 Dache per Dore Instruction Dache: 32 KB/8-usy L1 Date Dache: 32 KB/8-usy L2 Dache: 512 KB/16-usy L3 Cache Present 11 CHID Holdon Discussion 11 CHID Holdon Discussion 11 CHID Holdon Discussion 13 Support Discussion Adjustment (PState 0) HODE (Enabled) F1: Ge	0: AND G-TSEN Processor		
<pre>c Speed:1600 HHZ Intended Speed:1600 HHZ T Speed:800 HHZ Trocode Patch Level: 5000828 Cache per Core Instruction Cacher 32 KB/8-usy L1 Date Cacher 32 KB/8-usy L3 Cache Present L3 Cache Present L4 CH10 Factors L5 Support L5 Cache Present L5 Ch10 Factors L5 Support L5 Cache Intend L5 Ca</pre>		(350 mV	
Tracode Patch Level: 5000828 Cache per Core			
Cache per Core Instruction Cache: 32 KB/8-usy L1 Date Dache: 32 KB/2-usy L2 Dache: 512 KB/16-usy L3 Cache Present Core Present Suport Instruct Instruct	Speed:800 MHZ		
Instruction Cacher 32 KB/8-usy L1 Data Cacher 32 KB/2-usy L2 Dacher 512 KB/16-usy L3 Cache Present All CHID Refinant Disabled I Support IEnabled FATE Adjustment (PState 0) EACH CACHER Free Adjustment (PState 0) Hode (Enabled) F1: Ge	ocode Patch Level: 5000828		
Instruction Cacher 32 KB/8-usy L1 Data Cacher 32 KB/2-usy L2 Dacher 512 KB/16-usy L3 Cache Present All CHID Refinant Disabled I Support IEnabled FATE Adjustment (PState 0) EACH CACHER Free Adjustment (PState 0) Hode (Enabled) F1: Ge	Cache per Core		
L2 Dache: 512 ER/16-Way L3 Cache Present It critto Homon Dischard H++ Se is Support Enabled 114: Se HTE Adjustment [PState 0] Hdge [Enabled] F1: Ge			
L3 Cache Present It 0/010 Review (Dischard) ++: Se isupport (Enabled) 11: Se ATE Adjustment (PState 0) Entri Adjustment (PState 0) +/-: 0 Mode (Enabled) F1: Ge	L1 Date Dache: 32 KB/2-4	iey	
It CFUID Having ID Samped +++ Se Support Denabled II Is Se ATE Adjustment IPState 0] Enters Adjustment IPState 01 ++++ Hode IEnabled] F1: Ge	L2 Cache: 512 #8/16	- KBy	
Support [Enabled] 11: Se ATE Adjustment (PState 0) Enters Adjustment (PState 0) +/-: 0 Mode (Enabled) F1: Ge	3 Cache Present		
RE Adjustment (PState 0) Enter: Adjustment (PState 0) +/-: 0 Node (Enabled) F1: Ge			++: Select Screen
Adjustment (PState 0) +/-: 0 Node (Enabled) F1: Ge	The second s	Same the start to be a	14: Select Item
ode (Enabled) F1: Ge	Contraction of the Contraction o		Enter: Select
			+/-: Change Opt.
Mode TEnabled F2: Pr			F1: General Help
The second se			F2: Previous Values
	lade	(Disabled)	F9: Optimized Defaults
			F10: Save & Exit
ESCIE			ESCI EXIT

Figure 3.5 CPU Configuration Settings Screen



3.2.2.4 IDE Configuration

In the IDE Configuration menu, you can see the currently installed Hard Drive Information in the SATA ports:

Potio Setua Advanced	utility — Copyright (C) 2011 Americ	an Negatrends, Inc.
IDE Configuration		
SATA Porti	51250L1003-940 (250.0	
		++: Select Screen 14: Select Tren Enter: Select +/-: Change Opt. F1: Beneral Help F2: Previous Values F5: Optimized Defaults F10: Save # Exit ESC: Exit
We have a	1. 1. 1. 1. 1. 1. Alam. M.	

Figure 3.6 IDE Configuration Screen

3.2.2.5 Info Report Configuration

This is where you can set the parameters have the SHB enable selected system BIOS reports.

(Enstri)edi Ti Y	
144	
[Disabled]	
	<pre>++: Select Screen II: Select Item Enter: Select +/-: Change Opt. El: General Help FE: Provious Values F9: Optimized Defaults E10: Save % Exit ESC: Evit</pre>
	[pisabled]

Figure 3.7 Info Report Configuration Screen

3.2.2.6 USB Configuration

USB Configuration USB Devices: I Reyboard, I Mouse		Enables Legacy USB support. AUTO option disables Legacy Support if no USB devices are connected, DISMBLE option will keep USB devices aveilable
Legaco (58 Supplie) ENCI Hand-off	(Emailed) [Disabled]	only for EFI applications.
USB hardware delays and time-outs: USB transfer time-out Device reset time-out Device power-up delay	[1 sec] [20 sec] (Auto)	
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Frevious Values F9: Optimized Defaults F10: Same & Exit
		ESC: Exit

Figure 3.8 USB Configuration Screen

Legacy USB Support

Enables support for legacy USB. Auto option disables legacy support if no USB devices are connected.

 EHCI Hand-Off This is a workaround for an OS without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.



3.2.2.7 Super IO Configuration

In the SuperIO Configuration menu, you can modify settings regarding the serial port.

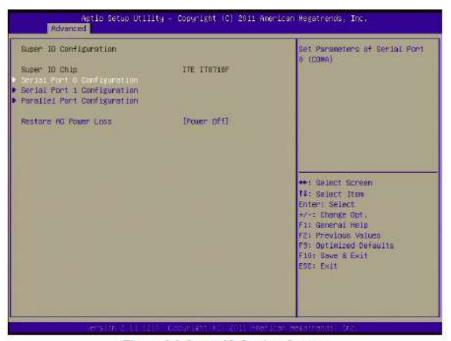


Figure 3.9 Super IO Setting Screen

3.2.2.8 H/W Monitor

This is allows you to control hardware monitoring.

Pic Health Status		Enable Or Disable CPU Over
System Temperature CPU Temperature3 CPU FWW Speed CPU Dore + 5V +3,3W + 12V +5WWLW	1 +32 C 1 +38 C 1 10384 RFM 7 +1.344 V 1 +5.113 V 1 +3.236 V 1 +12.224 V 1 +6.053 V	temperature warming
		+: Select Screen 14: Select Item Enter: Solet */-: Change But. F1: Beneral Holp F2: Previous Values F3: Optimized Defmilts F3: Sure & Exit ESC: Exit

Figure 3.10 PC Health Status Screen

Temperature

Shows System/CPU Temperature.

- Fan Speed Displays Fan0 speed in RPM.
- Voltage Show Vcore / +5 Vin / 3 VCC/+12 Vin / 5 VSB

3.2.3 Advanced Chipset Features Setup

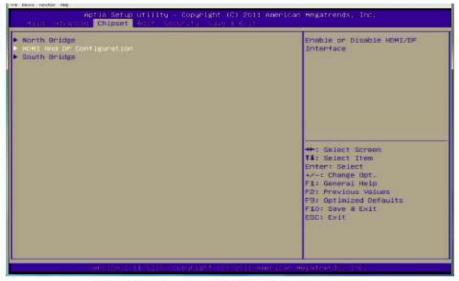


Figure 3.11 Advanced Chipset Features Screen

3.2.3.1 North Bridge

In the Northbridge Configuration menu, you can find GFX and Memory Information.

Worth Bridge Configuration	Select Primary Video Device that BIOS will use for output.
	THE SECTOR STREET
GPA Configuration Memory Configuration	
	++: Select Screen 14: Select Ttem Enter: Select */-1 Change Opt. F1: General Help F2: Previous Values P7: Optimized Defaults P10: Save # Selt ESC: Esit

Figure 3.12 North Bridge Configuration Screen





Figure 3.13 GFX Configuration Screen

Memory Information Memory Clack: 1066 MHZ Total Hemory: 4096 HB (DDR3) Starting Address: 0 KB Ending Address: 4194303 KB Dim0: Not Present Dim1: size=4096 HB, speed=1333 HHK	z	This Option Allows User to select different Menory Clock. Default value is 400Mhz.
Henory Cloar Menory Clear	(Auto) (Disabled)	**: Select Screen 11: Select Ites Enter: Select **-: Chonge Out. F1: General Help F2: Previous Volues F3: Optimized Defaults F10: Save & Exit ESC: Exit

Figure 3.14 Memory Configuration Screen

3.2.3.2 HDMI and DP Configuration

It allows you to select default Display as DP or HDMI.

eptio Setup Chipset	utility – Cocyright (C) 2011 (American Hegathends, Inc.
Dr Controller	(Dissioned) DOMI	Enable or Dixable DP Interface
		**: Select Screen T1: Select liee Enter: Bisect */-: Change Oot. F1: General mels F2: Previous Values F3: Optimized Defaults F10: Save & Exit EBG: Exit
42100.00		

Figure 3.15 Display Selection Screen

3.2.3.3 South Bridge

SB CIM Version :	4.1.1.1	Options for SATA Configuration
as selle configuration		
58 USB Configuration		
SB GPP Port Configuration SB HD Azalia Configuration		
		+ Select Screen 14: Select Item
		Enter: Select
		+/-: Change Opt.
		F1: General Help
		F2: Previous Values F3: Optimized Defaults
		F10: Save & Exit
		ESC: Exit

Figure 3.16 South Bridge Setup Screen



3.2.4 Boot Settings



Figure 3.17 Boot Setup Screen

- Quiet Boot If this option is set to "Disabled", the BIOS displays normal POST messages. If "Enabled", an OEM Logo is shown instead of POST messages.
- Option ROM Message Set display mode for option ROM message
- Interrupt 19 Capture This item allows options for ROMs to trap interrupt 19.
- Boots Option Priorities This item specifies the boot sequence from available devices.

3.2.5 Security Setup

If Only Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.

If Only the User's password is set, then this is a power-on password and must be entered to boot or enter Setup. In Setup the user will have Administrator rights. The password must be 3 to 20 characters long.



Figure 3.18 Security Setup Screen



3.2.6 Save & Exit

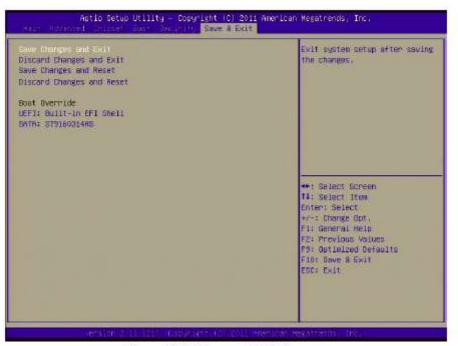


Figure 3.19 Save and Exit Screen

3.2.6.1 Save Changes and Exit

When you have completed system configuration, select this option to save your changes, exit BIOS setup and reboot the computer so the new system configuration parameters can take effect.

- Select "Exit Saving Changes" from the Exit menu and press <Enter>. The following message appears: Save Configuration Changes and Exit Now? [OK][Cancel]
- 2. Select OK or cancel.

3.2.6.2 Discard Changes and Exit

Select this option to quit Setup without making any permanent changes to the system configuration.

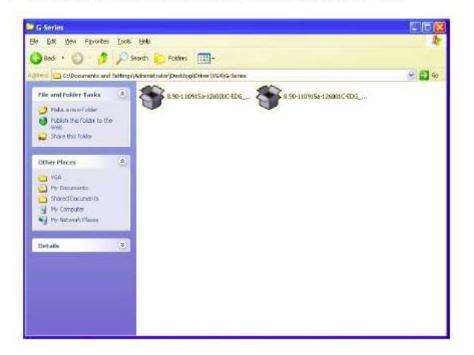
- Select "Exit Discarding Changes" from the Exit menu and press <Enter>. The following message appears: Discard Changes and Exit Setup Now? [OK][Cancel]
- Select OK to discard changes and exit. Discard Changes.
- 3. Select Discard Changes from the Exit menu and press <Enter>.

CHAPTER 4 DRIVERS INSTALLATION

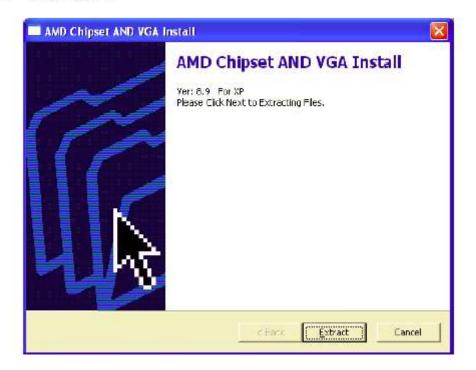
4.1 Driver Installation

4.1.1 Chipset and VGA Driver Installation

1. Change folder address. Double click to execute appropriate Setup.



2. Click "Extract".



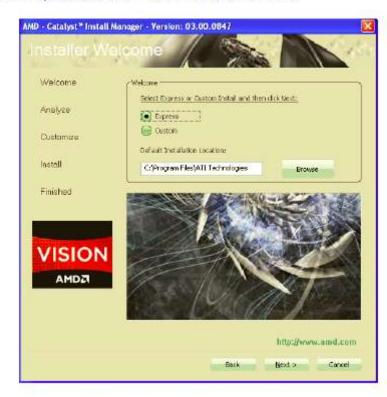


3. Select language, and Click "Next" to go to the next step.

AMD - Catalyst [®] Instail	Manager - Version: 03.00.0847	×
Welcome		10
Welcome	_ Welcome	
	Catalyst ^{on} Install Manager is used to instal and update the softwar year-graphics products	e for
-	Conguests Support Which language would you like Catalyst ^{ee} Install Manager to disp	8/1
	Eogleb 💌	
	http://www.nm	d.com
	Next.> C	ancel

Click "Install" to start installation. 4.





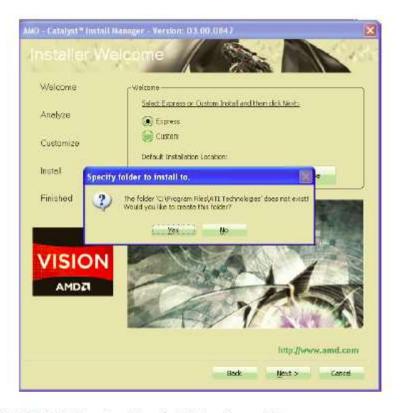
5. Select Express or Custom Install and then click "Next".

6. Click "Accept" for the user License Agreement.

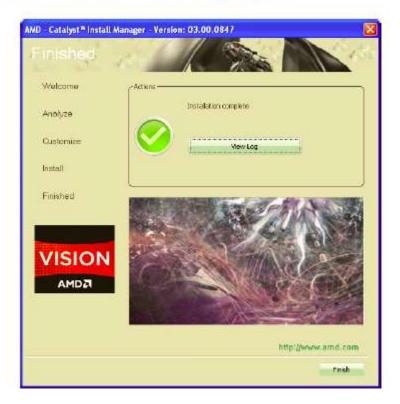
End User License Agreeme	uni:	1
	SE CAREFULLY BEFORE USING THE SOFTWARE. BY USING THE REEINS TO BE BOUND BY THE TERMS OF THIS LICENSE.	
WARNENG: The Materials (may disable or alter: (1) software including features and functions in	1
	vers and applications, and other system settings; and (2) system	
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	CTION THEREBY EXPOSING YOUR COMPUTER SYSTEM TO	
	REATS INCLUDING, WITHOUT LIMITATION, HARM FROM VIRUSES,	
	NEUL SOFTWARE; (E) PERFORMANCE AND INTEROPERABILITY SELV AFFECT YOUR EXPERIENCE AND THE STABILITY OF YOUR	
	D(C) OTHER EXPERIENCES RESULTING IN ADVERSE EFFECTS.	
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7. If the folder does not yet exist, click "Yes" to create the folder.



Click "Finish". Then the driver installation is complete. 8.

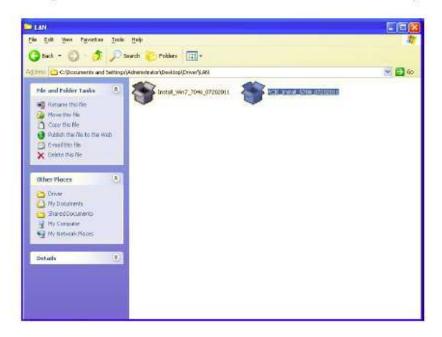


9. Select "Yes". The computer will restart automatically.



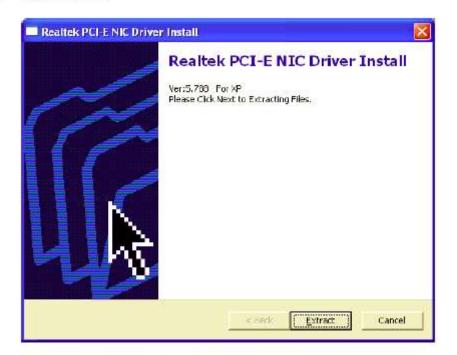
4.1.2 LAN driver installation

1. Change folder address to \Drivers\LAN. And double click to execute Setup.exe.





2. Click "Extract".



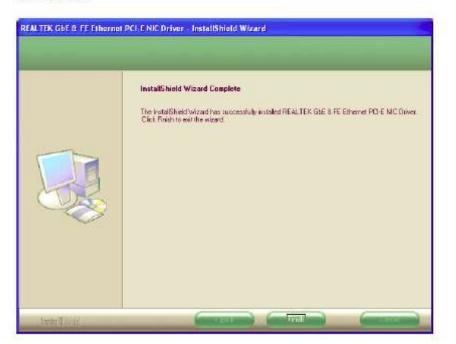
3. Click "Next" button to start Installation.

REALTEK GbF & FE Ethernet	PCI E HIC Driver InstallShield Wizard
	Welcome to the InstallShield Wizard for REALTER GBE & FE Ethennet PCI & NIC Drives The InstallShield Wizard will install REALTER GBE & FE Ethennet PCI & NIC Driver on your computer. To continue, click New
hestal F2 (c)	

4. Click "Install" button to start Installation.



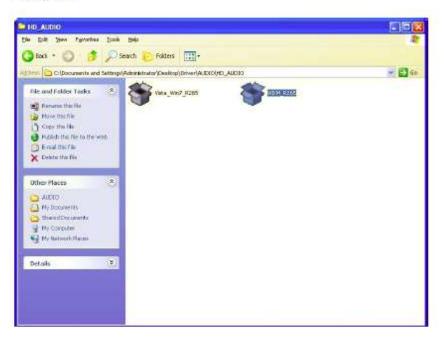
 The network driver installation is completed. Click "Finish" button to exit InstallShield.





4.1.3 Audio driver installation

 Change folder address to \AUDIO. And double click to execute desired Setup.exe.



2. Click "Extract" to proceed.



3. Click "Next" to proceed.

ealtek High Definition Aud	io Driver Setup (3, 34) R2.45 Welcons to this InstallShield Wicard for Realish High Definition Audio Driver The InduStrad Wicard will instal Realish High Definition Audio Driver on put computer. The controls, dick Next
instal Soci	(Less (Ben)) Conce

4. Select "Yes, I want to restart this computer now." and click "Finish". The computer will restart automatically. Then the driver installation is complete.

allek High Definition A	nčio Driver Setup (3. 34) R2.65
	InstallShield Wisterd Camplete The InstalShield Wisterd has successfully installed Realist High Dahriban AudioDriver. Before you den use the program, you must revier your computer.
	 Met. I want to restart my computer non- No.1 will restart my computer later. Remove any class from their drives, and their click Finish to complete setup.
Install in a d	e Jack Finish Correl

