



OPS883 Series

Intel Open Pluggable Specification Box

User's Manual



Disclaimers

This manual has been carefully checked and believed to contain accurate information. Axiomtek Co., Ltd. assumes no responsibility for any infringements of patents or any third party's rights, and any liability arising from such use.

Axiomtek does not warrant or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information in this document. Axiomtek does not make any commitment to update the information in this manual.

Axiomtek reserves the right to change or revise this document and/or product at any time without notice

No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Axiomtek Co., Ltd.

©Copyright 2016 Axiomtek Co., Ltd. All Rights Reserved November 2016, Version A2 Printed in Taiwan

Safety Approvals

CE Marking

FCC Class A

• FCC Compliance

This equipment has been tested in compliance with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are mean to provide reasonable protection against harmful interference in a residential installation. If not installed and used in accordance with proper instructions, this equipment might generate or radiate radio frequency energy and cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- A. Increase the separation between the equipment and receiver.
- B. Connect the equipment to another outlet of a circuit that does not connect with the receiver.
- C. Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with the emission limits.

Safety Precautions

Before getting started, please read the following important safety precautions.

- 1. The OPS883 series does not come equipped with an operating system. An operating system must be loaded first before installing any software into the computer.
- 2. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any static-shielded devices. Most electronic components are sensitive to static electrical charge.
- 3. Disconnect the power cord from the OPS883 series before any installation. Be sure both the system and external devices turned OFF already. Make sure the OPS883 series set to ground properly.
- 4. The brightness of the flat panel display will be getting weaker as frequently used. However, the operating period varies depending on the application environment.
- 5. The flat panel display is not susceptible to shock or vibration. When assembling the OPS883 series, make sure toinstall it securely.
- 6. Do not leave this equipment in an uncontrolled environment where the storage temperature is below 0°C or above 45°C. It may damage the equipment.
- 7. External equipment intended for connection to signal input/out or other connectors shall comply with relevant UL/IEC standard.
- 8. Do not open the back cover of the system. If opening the cover for maintenance is necessary, only allow technicians to implement it. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:
- 9. Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
- 10. Please wear a wrist-grounding strap if you handling boards and eletronic components.

Trademarks Acknowledgments

Axiomtek is a trademark of Axiomtek Co., Ltd.

IBM, PC/AT, PS/2, VGA are trademarks of International

Business Machines Corporation.

Intel[®] and AtomTM are registered trademarks of Intel Corporation.

MS-DOS, Microsoft C and Quick BASIC are trademarks of Microsoft Corporation.

VIA is a trademark of VIA Technologies, Inc.

SST is a trademark of Silicon Storage Technology, Inc.

UMC is a trademark of United Microelectronics Corporation. Other brand names and trademarks are the properties and registered brands of their respective owners.

Table of Contents

Disclaimer	S	ii
Safety App	rovals	iii
Safety Pree	cautions	iv
CHAPTER	1 INTRODUCTION	1
1.1	General Description	1
1.2	System Specifications	2
1.2.1	Main CPU Board	2
1.2.2	I/O System	2
1.3	Mechanical Assembly	4
1.3.1	Dimensions	4
1.3.2	I/O outlet	5
1.3.3	Mechanical Specifications	6
1.3.4	Reference Design	11
1.4	Package List	12
CHAPTER	2 HARDWARE INSTALLATION	13
2.1	CPU, Storage, DRAM, Wireless & 3G module Installations	13
2.2	Pluggble Module Method	22
CHAPTER	3 CONNECTORS	23
3.1	Connectors	23
3.1.1	JAE TX25 Connector (CN1)	25
3.1.2	CPU FAN (CN2)	26
3.1.3	SIM Card Slot (CN4)	26
3.1.4	HDMI Connector (CN5)	27
3.1.5	Power & Reset Button (CN6)	27

	3.1.6	Audio MIC-IN Connector (SCN2)	28
	3.1.7	AudioLine-Out Connector (SCN3)	28
	3.1.8	Battery 2 PIN (BAT1)	28
	3.1.9	Mini Card Slot (SCN1)	29
	3.1.10	SSW1 Setting	30
	3.1.11	SATA & SATA Power Connector (SATA1)	31
	3.1.12	RJ45 (I217LM) (LAN1)	32
	3.1.13	USB 3.0 Port (SUSB1)	32
	3.1.14	USB 2.0 Port (SUSB2/3)	33
	3.1.15	COM Port (COM2)	33
СН	APTER	4 AMI BIOS SETUP UTILITY	35
4	.1	Starting	35
4	.2	Navigation Keys	35
4	.3	Main Menu	36
4	.4	Advanced Menu	37
4	.5	Chipset Menu	47
4	.6	Boot Menu	53
4	.7	Security Menu	54
4	.8	Save & Exit Menu	55
APF	PENDIX	A REFERENCE DOCUMENTS	57
APF	PENDIX	B WATCHDOG TIMER	59
v	Vatchdo	g Timer Setting	59
U	Ising th	e Watchdog Function Start	59
APF	PENDIX	C iAMT SETTINGS	61
С	.1	Entering MEBx	61
С	.2	Set and Change Password	61

C.3	iAMT Settings	63
C.4	iAMT Web Console	66

This page is intentionally left blank.

CHAPTER 1 INTRODUCTION

This chapter contains general information and detailed specifications of the OPS883 series. Chapter 1 includes the following sections:

- General Description
- Specification
- Michanical Assembly
- Package List

1.1 General Description

Intel Open Pluggable Specification (OPS) Compliance

OPS883 series is based on the 4th generation Intel® Core[™] processor on board with Intel® Q87 Express Chipset platform and it also future products. The Pluggable Module is dedicated to provide an interchangeable solution to the digital signage media players with compatible connector. This document provides the module form factor, connector specification, reference thermal solution, and boundary conditions in order to ensure the functionally of the module in all compatible display panel system.

OPS883 series meets Intel Open Pluggable Specification for design and development, simplifying system upgrade maintenance for manufacturers and developers that supports Intel[®] 4th Generation Core I series family, which stand for high flexible and user-friendly digital signage applications.

Easy maintenance

OPS883 series offers a best solution for digital signage market. Compliant with Intel OPS architecture, digital signage players are capable of deploying interchangeable systems faster and easing upgrading/maintenance, while lowering costs for development and implementation. Additionally, having the ability to simply slot-in and out the unique pluggable engine box makes daily hassle easier and faster for users.

OPS883 series has pluggable engine box design; you can change storage, DRAM and update configurations more easily

1.2 System Specifications

1.2.1 Main CPU Board

- CPU
 - LGA1150 socket type 4th generation Intel® Core™ i5/i3/Celeron Processor
- System Chipset
 - Intel® Q87 PCH
- BIOS
 - American Megatrends Inc.

UEFI (Unified Extensible Firmware Interface) BIOS.

System Memory

One socket 204-pin DDR3 1333/1600MHz SO-DIMM, maximum up to 8GB

• Wireless Module (Optional)

• Optional IEEE802.11 b/g/n, Bluetooth 2.0

1.2.2 I/O System

- Standard I/O
 - One HDMI (with 4K solution)
 - Two USB ports 2.0
 - One USB ports 3.0
 - One RS-232(COM2)
 - One Power on /Off button
 - One Reset button
- Ethernet
 - 10/100/1000Mbps Ethernet (with Intel[®] I217)
- Audio
 - Line-out/ Mic-in
- Expansion
 - One Full-size PCI Express Mini card (USB+PCIe signals supported)
- Storage
 - One. 2.5" SATA HDD tray
 - One mSATA option through Mini PCIe by SSW1 selection
- Net Weight
 - 0.9Kg(1.99 lb) without cooler

- Dimension (Main Body Size)
 - 200 mm(W) x 119 mm(D) x 30 mm(H)
- Operation Temperature
 - 0° C to 45° C (with airflow 1.2 m/s)

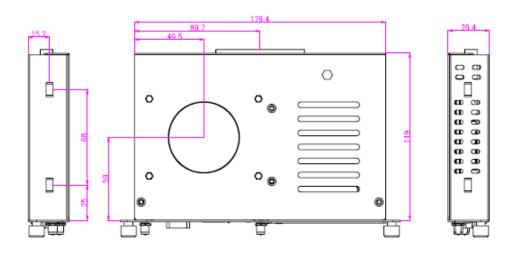
NOTE: All specifications and images are subject to change without notice.

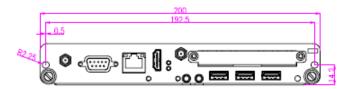
1.3 Mechanical Assembly

1.3.1 Dimensions

This diagram shows you dimensions and outlines of the OPS883 series

The overall dimension of the module including the mounting frame is 200 mm x 119 mm x 30 mm, and it shows the location of the screw holes of front panel as well as the security lock.

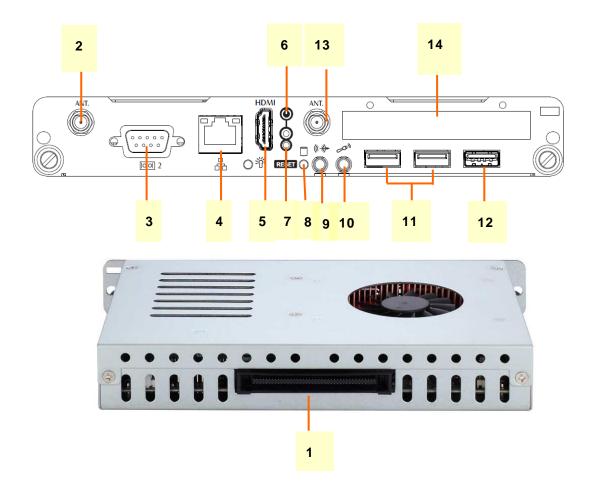




%While plugging the OPS module, please make sure the heat sink side of OPS module toward the outside. Axiomtek will be out of reasonability if there is any damage occurred due to it.

1.3.2 I/O outlet

The following figures show you the locations of the OPS883 series I/O outlets.



No.	Connector	No.	Connector
1	JAE TX-25	8	HDD indicator
2	Antenna opening	9	Audio(Line-out)
3	RS-232	10	Audio(Micin)
4	Ethernet	11	2 x USB 2.0
5	HDMI Output	12	1 x USB 3.0
6	Power Switch	13	Antenna opening
7	Reset	14	2.5" SATA HDD tray

1.3.3 Mechanical Specifications

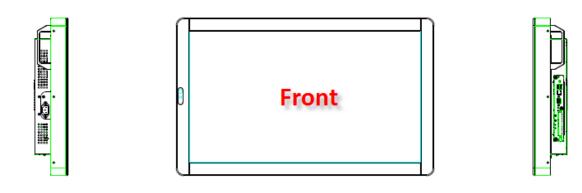
OPS883 series is docked in the reference display panel

The OPS883 Pluggable Module docked at a display panel system.

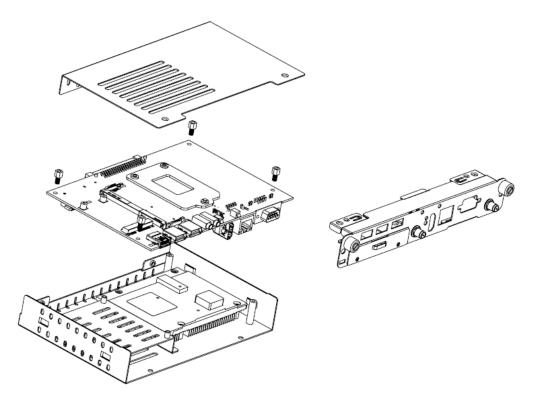
In this reference design, the module is docked and undocked in the vertical direction.

NOTE: Please contact Axiomtek for available option display panel.



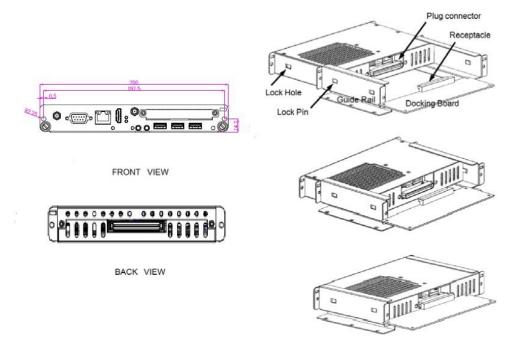


Exploded View of the Pluggable Module

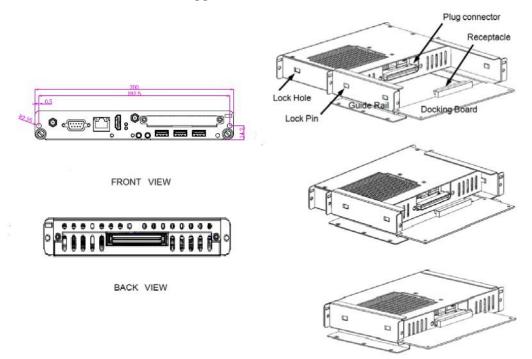


The Guide Rail Mechanism for the OPS883 series Module

You can use the rails alongside of OPS883 series Module to dock and undock the plug connector at the back of the module to connect with docking board. There are two lock pins on each side of the rail, and they serve as the locking mechanism to attach the lock holes on the series module.

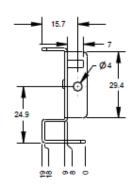


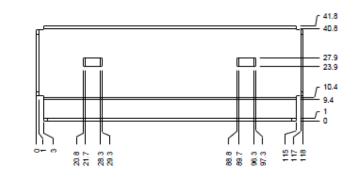
Location of Lock Hole on the Pluggable Module

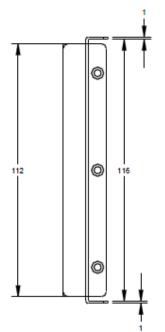


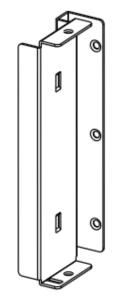
*The drawing is base on Intel Open Pluggable Specification

Dimensions of the Guide Rail



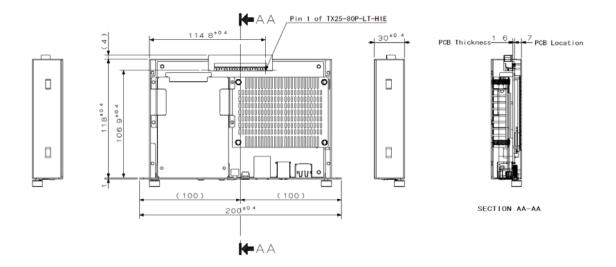






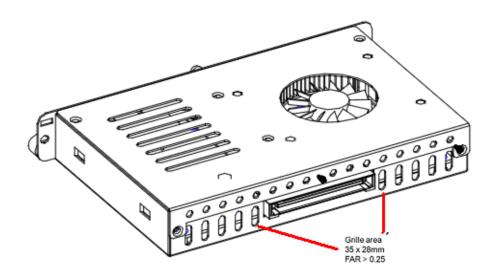
Location of JAE TX25 Plug Connector

Please refer to the following drawing for location of the JAE TX25 plug connector. Pin 1 of the connector is located at 114.8 mm from the edge of the module, and 106.9 mm from the inner side of the front panel. For mating tolerance of TX25 plug connector and TX24 receptacle connector, please refer to the JAE specification



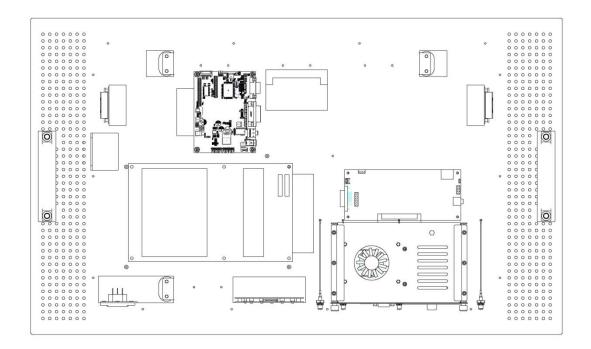
Vent Holes at the Pluggable Module Back Panel

On the OPS883 series module, it is recommended by Intel that some vent holes be opened at the back so that hot air can escape more easily from the module that the FAR in on both sides of the module back panel should be greater than 0.25.



1.3.4 Reference Design

Display Panel Rear View - Internal



The digital signage OPS883 series prototype is based on a 32" display panel with the functional blocks illustrated. It is mainly a 3-board partitioning design consisting of the pluggable module, docking board and the panel control board.

1.4 Package List

When you receive the OPS883 series, the bundled package should contain the following items:

- OPS883 System x 1
- CD x 1
- THERMAL GREASE(Syringe 1G)
- M2 x 5 screw x 2
- M4 x 6 screw x 2
- M3 x 4 screw x 2 (For CPU installation)

If you cannot find the package or any items are missing, please contact Axiomtek distributors immediately.

CHAPTER 2 HARDWARE INSTALLATION

The OPS883 series is convenient for your various hardware configurations, such as Storage, Memory Module.

The chapter 2 will show you how to install the hardware. It includes:

- CPU, HDD, DRAM, Wireless & 3G module Installation
- Pluggable Module Method

2.1 CPU, Storage, DRAM, Wireless & 3G module Installations

The OPS883 series model offers a convenient drive bay module for users to install CPU, Storage, DRAM, wireless & 3G modules. Please follow the steps:

CPU Installation

Step 1 Please take out two M3*4L screws from the accessory package.

Step 2 Turn off the system, Loosen the screws as illustrated.





Step 3 Remove the cover with caution then lossen two screws of front I/O bracket.



Step 4 Refer to the following photo to loosen the screws and pillars in advance.

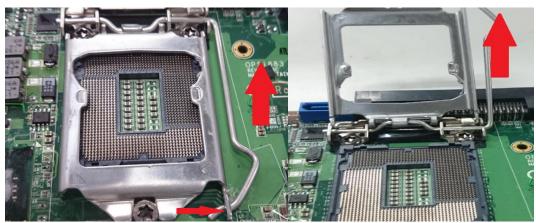


<u>NOTE</u>: Please pull out power cable of system fan while installation.

Step 5 Then turn over the chassis as per illustrated.



<u>NOTE</u>: Please be aware of the CPU FAN Cable, while installing the CPU, you do not need to pull out the cable to avoid cable damage.



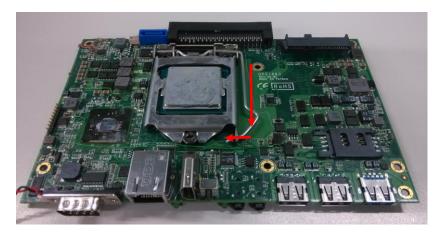
Step 6 Remove the CPU waring mylar and then pull out the desktop CPU socket pole.

Step 7 Insert the CPU into the slot. Please follow the indication on CPU as mark and slot to ensure the proper insertion of the CPU



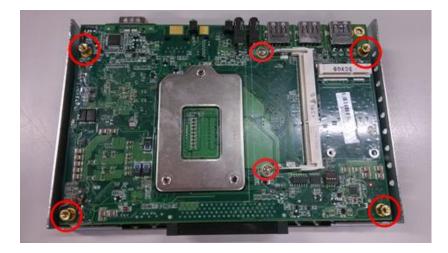
Step 8 Please make sure CPU has inserted into the socket and the latch is closed.





Step 9 Press pole of the CPU socket firmly, as per illustrated.

Step 10 Fasten all of screws with front I/O bracket.



Step 11 According to below photo to fasten two M3*4L screws.



Step 12 Fasten the screws on the real of chassis as illustrated to complete installation.

DRAM Install

Step 1 Loosen the screws on the real of chassis as illustrated.



Step 2 After losing the screws, extract the real of chassis out of the module.



Step 3 Place the memory module into the socket and press it firmly. The socket latches are levered upwards and clipped on to the edges of the DIMM.



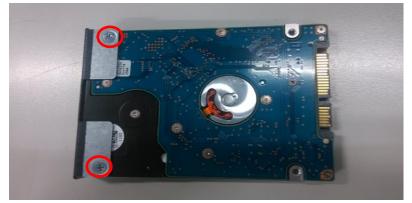
2.5" HDD/ SSD Instilation

The OPS883 series provides one 2.5" SATA HDD tray to install 2.5" HDD. When please refer to the following instructions and illustration.

Step 1 Loosen the screws per illustrated.



Step 2 Please refer to the below photo to connect the target 2.5" HDD/SSD with HDD's bracket.





Step 3 Then plug HDD drive in to HDD connector.

Step 4 Finally, fasten two screws on HDD cover firmly.



Mini PCIe Module Installation

The OPS883 series provides one Mini card slot for user to install mini cards, please refer to the following instructions and illustration.

Step 1 Loosen the screws per illustrated.



Step 2 Then open the cover carefully.



Step 3 You can find the position of Mini PCIe slot and please insert it then fasten screw of Mini PCIe module by yourself.



SIM Card & Antenna Cable Installation

Step 1 Install SIM Card module. Place the SIM Card module into the socket and press it firmly down until it is fully located.



Step 2 The following photos show you how to connect antenna cable by yourself.

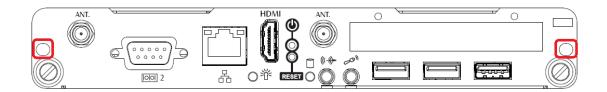




2.2 Pluggble Module Method

NOTE:	Please conta	ct Axiomtek for th	ne available option display
	•		
:: !.		0	•

- Step 1 Pluggable the box into display
- Caution: When plugging OPS883 series module into an OPS display, make sure the module's heat sink is facing outside of the display. Axiomtek is not responsible for any damage caused by wrong installation.
- Step 2 Fasten the screws as illustrated



CHAPTER 3 CONNECTORS

This chapter provides users with detailed description how to set up basic system configuration through the AMIBIOS8 BIOS setup utility.

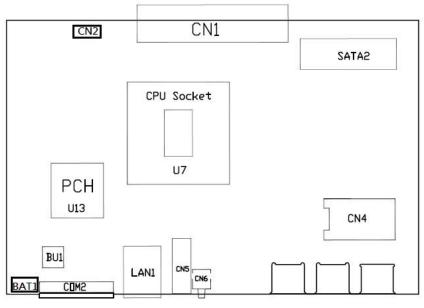
3.1 Connectors

Connectors connect this board with other parts of the system. Loose or improper connection might cause problems. Make sure all connectors are properly connected.

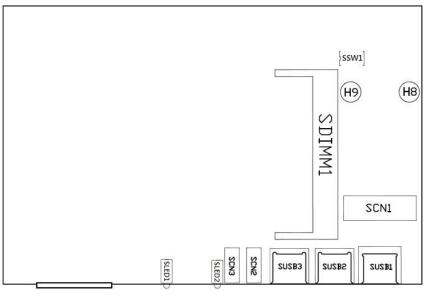
Connector	Label	
JAE TX25 Connector	CN1	
CPU FAN	CN2	
SIM Slot	CN4	
НДМІ	CN5	
POWER & RESET BUTTON	CN6	
Audio MIC-IN Connector	SCN2	
Audio LINE-OUT Connector	SCN3	
Mini Card Slot	SCN1	
Battery 2 PIN	BAT1	
ATX Auto Power On		
Clear CMOS	SSW1	
PCIe Signal Switch (Reserve)	33771	
SLP_S3 Docking Support		
SATA & SATA Power Connector(5V Only)	SATA1	
RJ45 (I217LM)	LAN1	
USB3.0 Port 1	SUSB1	
USB2.0 Port 2	SUSB2	
USB2.0 Port 3	SUSB3	
COM Port	COM2	
HDD LED	SLED1	
Power LED	SLED2	

Here is a summary table shows you all connectors on the board.

Board Layout



Top side

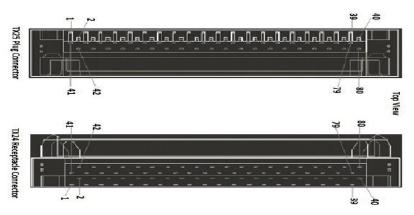


Bottom side

3.1.1 JAE TX25 Connector (CN1)

Connector JAE TX25 CN1 is for JAE interface support.

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	DDP_3N	2	DDP_3P	3	GND	4	DDP_2N
5	DDP_2P	6	GND	7	DDP_1N	8	DDP_1P
9	GND	10	DDP_0N	11	DDP_0P	12	GND
13	DDP_AUXN	14	DDP_AUXP	15	DDP_HPD	16	GND
17	TMDS_CLK-	18	TMDS_CLK+	19	GND	20	TMDS0-
21	TMDS0+	22	GND	23	TMDS1-	24	TMDS1+
25	GND	26	TMDS2-	27	TMDS2+	28	GND
29	DVI_DDC_DATA	30	DVI_DDC_CLK	31	DVI_HPD	32	GND
33	+12V~+19V	34	+12V~+19V	35	+12V~+19V	36	+12V~+19V
37	+12V~+19V	38	+12V~+19V	39	+12V~+19V	40	+12V~+19V
41	RSVD	42	RSVD	43	RSVD	44	RSVD
45	RSVD	46	RSVD	47	RSVD	48	RSVD
49	SLP_S3	50	SYS_FAN	51	UART_RXD	52	UART_TXD
53	GND	54	StdA_SSRX-	55	StdA_SSRX+	56	GND
57	StdA_SSTX-	58	StdA_SSTX+	59	GND	60	USB_PN2
61	USB_PP2	62	GND	63	USB_PN1	64	USB_PP1
65	GND	66	USB_PN0	67	USB_PP0	68	GND
69	AZ_LINEOUT_L	70	AZ_LINEOUT_R	71	NC	72	PB_DET
73	PS_ON#	74	PWR_STATUS	75	GND	76	GND
77	GND	78	GND	79	GND	80	GND



3.1.2 CPU FAN (CN2)

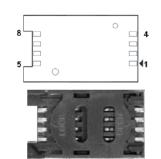
CN2 provides power input and FAN control signal, and you can connect CPU FAN through this connector.

Pin	Signal	
1	GND	000
2	FAN CTRL	
3	VCC	5 1

3.1.3 SIM Card Slot (CN4)

This slot supports inserting SIM Card. In order to work properly, the SIM Card must be used together with 3G module. It's mainly used in 3G wireless network application.

Pin	Signal
1	PWR
2	RST
3	CLK
4	NC
5	GND
6	VPP
7	I/O
8	NC



1₽

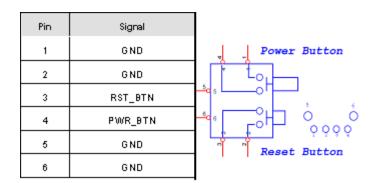
3.1.4 HDMI Connector (CN5)

The HDMI (High-Definition Multimedia Interface) is a compact digital interface which is capable of transmitting high-definition video and high-resolution audio over a single cable.

Pin	Signal	Pin	Signal	
1	HDMI OUT_DATA2+	2	GND	19
3	HDMI OUT_DATA2-	4	HDMI OUT_DATA1+	18
5	GND	6	HDMI OUT_DATA1-	
7	HDMI OUT_DATA0+	8	GND	
9	HDMI OUT_DATA0-	10	HDMI OUT Clock+	
11	GND	12	HDMI OUT Clock-	
13	N.C.	14	N.C.	
15	HDMI OUT_SCL	16	HDMI OUT_SDA	
17	GND	18	+5V	
19	HDMI_HTPLG			

3.1.5 Power & Reset Button (CN6)

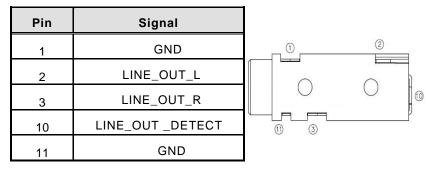
CN6 is the reset switch that reboots your computer instead of turning OFF the power switch. It is a better way to reboot your system for a longer life of the system's power supply.



Pin	Signal	
1	GND	
2	MIC_IN_L	
3	MIC_IN_R	
10	MIC_DETECT	
11	GND	

3.1.6 Audio MIC-IN Connector (SCN2)

3.1.7 AudioLine-Out Connector (SCN3)



3.1.8 Battery 2 PIN (BAT1)

Pin	Signal
1	+VBAT
2	GND

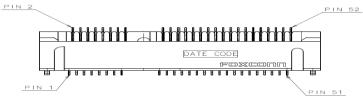
_	2	1	

3.1.9 Mini Card Slot (SCN1)

This is a PCI-Express Mini Card connector which supports PCI-Express x1 link, USB 2.0 link and 3G/LTE wireless network application.

SCN1 also supports SATA signal for mSATA device, users can adjust it to SATA mode through BIOS configuration.

Pin	Signal	Pin	Signal	Pin	Signal
1	WAKE#	2	+3.3VAUX	3	RVD1
4	GND	5	RVD2	6	+1.5V
7	CLKREQ#	8	RVD19	9	GND
10	RVD18	11	REFCLK-	12	RVD16
13	REFCLK+	14	RVD15	15	GND
16	RVD14	17	RVD3	18	GND
19	RVD4	20	+3.3VAUX	21	GND
22	PERST#	23	PERN0	24	+3.3VAUX
25	PERP0	26	GND	27	GND
28	+1.5V	29	GND	30	SMB_CLK
31	PETN0	32	SMB_DATA	33	PETP0
34	GND	35	GND	36	USB_D-
37	RVD5	38	USB_D+	39	+3.3VAUX
40	GND	41	+3.3VAUX	42	LED_WWAN#
43	RVD8	44	LED_WLAN#	45	RVD9
46	LED_WPAN#	47	RVD10	48	+1.5V
49	RVD11	50	GND	51	RVD12
52	+3.3VAUX	53	NH1	54	NH2
55	NH3	56	NH4		



3.1.10 SSW1 Setting

ATX/AT Mode Setting/ Clear CMOS/ SLP_S3_Docking (SSW1-Pin8).

AT or ATX Select (SSW1- Pin1)

Description	Settings
ATX	OFF (Default)
AT	ON



ON

Clear CMOS (SSW1- Pin2)

Description	Settings
Clear CMOS	OFF (Default)
Clear CMOS	ON

PCIe Signal Switch (SSW1- Pin3)

Description	Settings
PCIe	OFF (Default)
mSATA	ON

SLP_S3_Docking (SSW1- Pin4)

Description	Settings
NON-SLP_S3	OFF (Default)
SLP_S3	ON



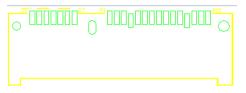


Pin	Signal	Pin	Signal
S1	GND	P1	+3.3V
S2	SATA0_TX+	P2	+3.3V
S3	SATA0_TX-	P3	+3.3V
S4	GND	Ρ4	GND
S 5	SATA0_RX-	P5	GND
S6	SATA0_RX+	P6	GND
S7	GND	Ρ7	+5V
		P8	+5V
		P9	+5V
		P10	GND
		P11	GND
		P12	GND
		P13	NC
		P14	NC
		P15	NC

3.1.11 SATA & SATA Power Connector (SATA1)

S1 S7 P1

P15



3.1.12 RJ45 (I217LM) (LAN1)

The RJ-45 connector LAN1 is for Ethernet. To connect the board to 100-Base-T or 1000-Base-T hub, just plug one end of the cable into LAN1 and connect the other end (phone jack) to a 100-Base-T hub or 1000-Base-T hub.

Pin	Signal	
1	Tx+ (Data transmission positive)	
2	Tx- (Data transmission negative)	
3	Rx+(Data reception positive)	AB
4	RJ-1(For 1000 base T-Only)	
5	RJ-1(For 1000 base T-Only)	87654321
6	Rx- (Data reception negative)	
7	RJ-1(For 1000 base T-Only)	
8	RJ-1(For 1000 base T-Only)	
А	Active LED	
В	Speed LED	

3.1.13 USB 3.0 Port (SUSB1)

Pin	Signal
1	USB3_POWER
2	USB D0-
3	USB D0+
4	GND
5	USB3_SSRX0-
6	USB3_SSRX0+
7	GND
8	USB3_ SSTX0-
9	USB3_ SSTX0+

9	8	7	6	5
1		2	3	4

3.1.14 USB 2.0 Port (SUSB2/3)

Pin	Signal	
1	USB_POWER	
2	USB D0-	
3	USB D0+	
4	GND	

3.1.15 COM Port (COM2)

The COM Port connector is a standard DB-9 connector. The pin assignment of RS-232 is listed on the following table

2 3 4

1

Pin	Signal	
1	DCD, Data carrier detect	
2	RXD, Receive data	
3	TXD, Transmit data	
4	DTR, Data terminal ready	-60000
5	GND, ground	@ @ 000 @
6	DSR, Data set ready	
7	RTS, Request to send	
8	CTS, Clear to send	
9	RI, Ring indicator	

Power LED

The Power LED lights up when the system is powered ON

HDD Activity LED

This connection is linked to hard drive activity LED on the control panel. LED flashes when HDD is being accessed.

This page is intentionally left blank.

CHAPTER 4 AMI BIOS SETUP UTILITY

This chapter provides users with detailed description how to set up basic system configuration through the AMIBIOS8 BIOS setup utility.

4.1 Starting

To enter the setup screens, follow the steps below:

- > Turn on the computer and press the key immediately.
- After you press the key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

4.2 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.

These keys include <F1>, <F2>, <Enter>, <ESC>, <Arrow> keys, and so on.

QUE	
\mathbf{Y}	• •

Hot Key	Description
← →Left/Right	The Left <arrow> keys allow you to select a setup screen.</arrow>
↑ ↓ Up/Down	The Up and Down <arrow> keys allow you to select a setup screen or sub-screen.</arrow>
+– Plus/Minus	The Plus and Minus <arrow> keys allow you to change the field value of a particular setup item.</arrow>
Tab	The <tab> key allows you to select setup fields.</tab>
F1	The <f1> key allows you to display the General Help screen.</f1>
F2	The <f2> key allows you to Load Previous Values.</f2>
F3	The <f3> key allows you to Load Optimized Defaults.</f3>
F4	The <f4> key allows you to save any changes you have made and exit Setup. Press the <f4> key to save your changes.</f4></f4>
Esc	The <esc> key allows you to discard any changes you have made and exit the Setup. Press the <esc> key to exit the setup without saving your changes.</esc></esc>
Enter	The <enter> key allows you to display or change the setup option listed for a particular setup item. The <enter> key can also allow you to display the setup sub- screens.</enter></enter>

NOTE: Some of navigation keys differ from one screen to another.

4.3 Main Menu

When you first enter the 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.

BIOS Information

Aptio Setup Utility - Copyright (C) 2012 American Megatrends , Inc .		
Main Advanced Chipset	Boot Security Save &	& Exit
BIOS Information BIOS Version Build Date and Time	OPSi883 X005 09/19/2014 11:47:31	Choose the system default language
System Language	[English]	
System Date System Time	[Sun 01/04/2009] [23:13:52]	
Access Level Administrator		 →←: Select Screen ↑↓ : Select Item Enter : Select +/-: Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc .		

System Date/Time

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

4.4 Advanced Menu

The Advanced menu also allows users to set configuration of the CPU and other system devices. You can select any of the items in the left frame of the screen to go to the sub menus:

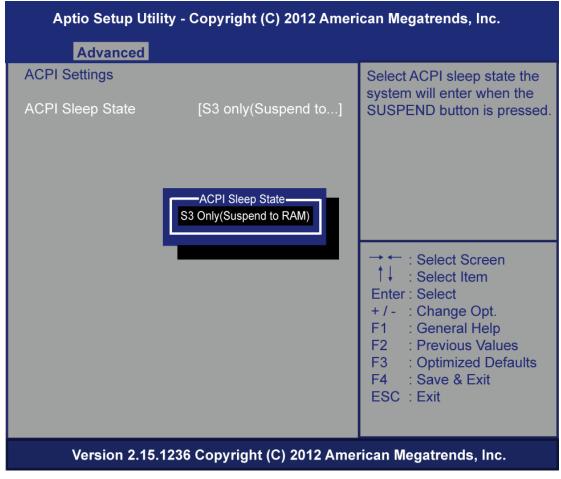
- ACPI Settings
- S5 RTC Wake Settings
- Trusted Computing
- CPU Configuration
- SATA Configuration
- > PCH-FW Configuration
- > AMT Configuration
- > USB Configuration
- > F81801 Super IO Configuration
- **F81801 H/W Monitor**

For items marked with "▶", please press <Enter> for more options.

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc.					
Main	Advanced	Chipset	Boot	Security	Save & Exit
 Trusted CPU Co SATA Co PCH-FV AMT Co USB Co F81801 	ettings C Wake Settin I Computing onfiguration Configuration W Configurati nfiguration onfiguration Super IO Co	on onfiguration			System ACPI Parameters.
					 → ← : Select Screen ↑↓ : 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.				

• ACPI Settings

You can use this screen to select options for the ACPI Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.



ACPI Sleep State

Allow you to select the Advanced Configuration and Power Interface (ACPI) state to be used for system suspend. Here are the options for your selection, S3 (Suspend to RAM)

• S5 RTC Wake Settings

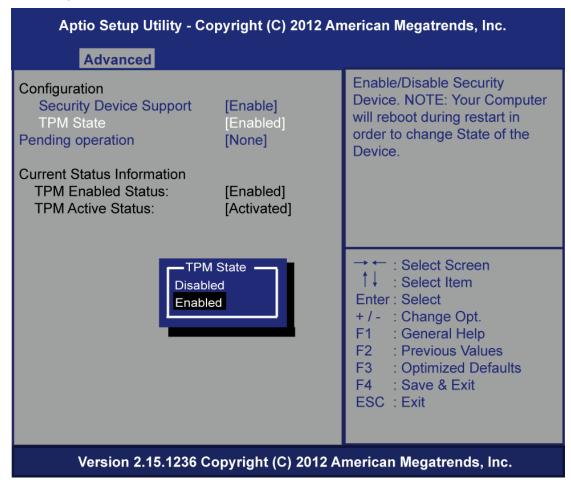
Enable or disable system wake on alarm event. When enabled, System will wake on the hr:min::sec specified

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.		
Advanced		
Wake system with Fix Time [Disabled]	Enable or Disable System wake on alarm event. When enabled, System will wake on the hr::min::sec specified	
Uisabled Enabled	 → ← : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit 	
Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.		

• Trusted Computing

Enables or disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

TCG EFI protocol and INT1A interface will not be available.



• CPU Configuration

This screen shows the CPU Configuration, and you can change the value of the selected option.

Aptio Setup Utility - Copyright (C) 2012 American Megatrends , Inc .			
Advanced			
CPU Configuration Intel(R) Core(TM) i5-4590T CPU@ Processor Cores Intel HT Technology Intel VT-x Technology Intel SMX Technology 64-bit EIST Technology L1 Data Cache L1 Code Cache L2 Cache L3 Cache Active Processor Cores Intel Virtualization Technology	2.00GHZ 4 Not Supported Supported Supported Supported 32 KB x 4 32 KB x 4 256 KB x 4 6144KB [All] [Enabled]	Number of cores to enable in each processor package. → ← : Select Screen ↑↓ : Select Item Enter : Select +/-: Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit	
Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.			

> Active Processor Cores

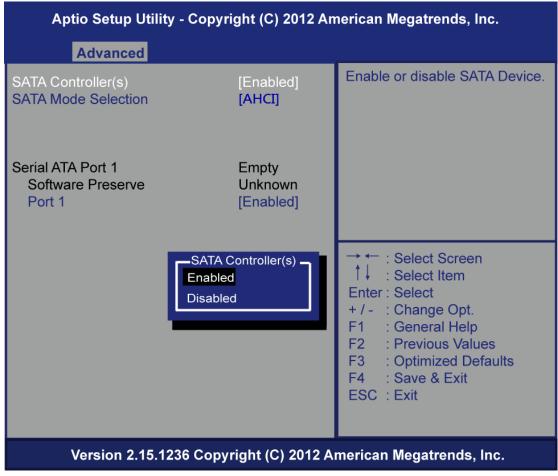
To select number of cores is to enable in each processor package.

Intel Virtualization Technology

Allows a hardware platform to run multiple operating systems separately and simultaneously, enabling one system to virtually function as several systems.

• SATA Configuration

You can use this screen to select options for the SATA Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.



Serial-ATA Controller(S)

Use this item to enable or disable the integrated SATA controllers. (Default: Enabled)

Serial ATA Port 1

Enable or Disable SATA Port

• PCH-FW Configuration

You can use this screen to confirm ME Firmware version.

Aptio Setup Utility	- Copyright (C) 2012 An	nerican Megatrends, Inc.
Advanced		
ME FW Version ME Firmware Mode ME Firmware Type ME Firmware SKU	9.1.10.1005 Normal Mode Full Sku Firmware 1.5MB	
		 → ← : Select Screen ↑ ↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.123	36 Copyright (C) 2012 A	merican Megatrends, Inc.

• AMT Configuration

Enable/Disable Intel (R) Active Management Technology BIOS extension.

Aptio Setup U Advanced	tility - Copyright (C) 2012 Ai	merican Megatrends, Inc.
Intel AMT	[Disabled]	 → → : Select Screen ↑ ↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.1	5.1236 Copyright (C) 2012 A	merican Megatrends, Inc.

USB Configuration

You can use this screen to select options for the USB Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.

Aptio Setup Utility - Copyri	ght (C) 2012 An	nerican Megatrends, Inc.
Advanced		
USB Configuration		Enables Legacy USB support. AUTO option disables legacy
USB Module Version	8.10.28	support if no USB devices are connected . DISABLE option will
USB Devices: 1 Drive, 1 Keyboard, 1 Mouse, 2 Hubs		keep USB devices available only for EFI applications.
Legacy USB Support XHCI Mode	[Enabled] [Smart Auto]	
		 → ← : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.1236 Copyr	ight (C) 2012 A	merican Megatrends, Inc.

Legacy USB Support

This is for supporting USB device under legacy OS such DOS, when choosing AUTO", the system will automatically detect any USB device is plugged into the computer and enable USB legacy mode. During a USB device plugged and disable USB legacy mode, the USB device will not available in legacy O.S.

• F81801 Super IO Configuration

Set parameters of Serial Port 1(COM1)/Serial Port 2(COM2)

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.		
Advanced		
F81801 Super IO Configuration	F81801 Super IO Configuration	
F81801 Super IO Chip ►Serial Port 1 Configuration ►Serial Port 2 Configuration	F81801	1 (COM1)
		 → ← : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.1236 Copyr	ight (C) 2012 A	merican Megatrends, Inc.

Serial Port

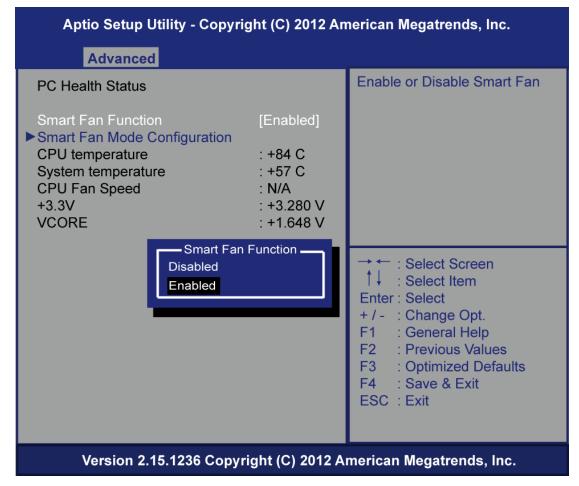
Enable or Disable serial port.

Device Settings

Display the serial port resource.

• PC Health Status

This screen shows the Hardware Health Configuration, and enable or disable smart fan.



4.5 Chipset Menu

The Chipset menu allows users to change the advanced chipset settings. You can select any of the items in the left frame of the screen to go to the sub menus:

- PCH–IO Configuration
- System Agent(SA) Configuration

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.		
Chipset		
 PCH-IO Configuration System Agent (SA) Configuration 	Parameters	
	 → ← : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit 	
Version 2.15.1236 Copyright (C) 2012 Americ	an Megatrends, Inc.	

• PCH–IO Configuration

PCH Azalia Configuration settings

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.		
Chipset		
Intel PCH RC Version Intel PCH SKU Name Intel PCH Rev ID	1.8.0.0 H81 05/C2	PCH Azalia Configuration settings.
► PCH Azalia Configuration		
PCH LAN Controller Wake on LAN	[Enabled] [Disabled]	
		 → ← : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.		

• PCH Azalia Configuration

Contorl Detection of the Azalia device.

Aptio Setup Utility - Copy	right (C) 2012 Ai	merican Megatrends, Inc.
Chipset	ľ	
PCH Azalia Configuration Azalia	[Enabled]	Control Detection of the Azalia device. Disabled = Azalia will be unconditionally disabled Enabled = Azalia will be unconditionally Enabled
Azalia – Disabled Enabled		 → → : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.1236 Copy	yright (C) 2012 A	merican Megatrends, Inc.

> Azalia

Enable or disable Azalia device.

• System Agent(SA) Configuration

To adjust graphics and memory detail configurations.

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.			
Chipset	1		
System Agent Bridge Name System Agent RC Version	Haswell 1.8.0.0	Enable or disable CPU SA Audio Device.	
 Graphics Configuration Memory Configuration 			
		 → ←: Select Screen ↑ ↓: Select Item Enter: Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit 	
Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.			

Graphics Configuration

Configure graphics settings.

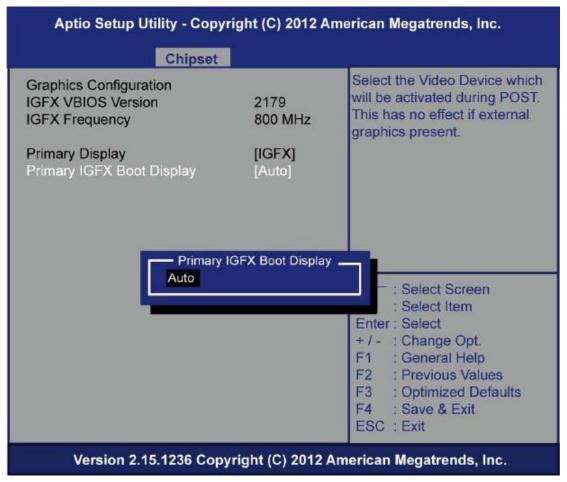
> Memory Information

Memory configuration parameters

• Graphics Configuration

Select the Video Device which will be activated druing POST.

This has no effect if external grpahis present.



> Primary IGFX Boot Display

Select the video device which will be activated during POST. It has no effect if external graphics presents VGA modes will be supported only on primary display

• Memory Information

Memory configuration parameters

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.			
Ch	nipset	. <u></u>	
Memory Information Memory RC Version Memory Frequency Total Memory Memory Voltage DIMM#1 DIMM#2 Max TOLUD	1.8.0.0 1333 Mhz 4096 MB (DDR3) 1.35v 4096 MB (DDR3) Not Present [Dynamic]	Maximum value of TOLUD. Dynamic assignment would adjust TOLUD automatically based on largest MMIO length of installed graphic controller	
		 → + : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit 	
Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.			

> Max TOLUD

This item allows you to set Maximum Value of TOLUD

4.6 Boot Menu

The Boot menu allows users to change boot options of the system. You can select any of the items in the left frame of the screen to go to the sub menus:

- Setup Prompt Timeout
- Boot up Num Lock State
- Quiet Boot
- Boot Option Priorities

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.				
Main Advanced Chipset	Boot Secu	ity Save	& Exit	
Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot Boot Option Priorities Boot Option #1	1 [On] [Disabled] [P4: TS64GMSA	de	t the order of the legacy vices in this group	
Boot Option #2	[UEFI: Built-in E	Fl] → Er + F ² F ² F ² F ² F ²	 ← : Select Screen ↓ : Select Item hter : Select / - : Change Opt. 1 : General Help 2 : Previous Values 3 : Optimized Defaults 4 : Save & Exit SC : Exit 	
Version 2 15 1236 Convright (C) 2012 American Megatronds Inc				

Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.

> Setup Prompt Timeout

Set the number of seconds to wait for Setup activation key.

Boot up Mum Lock State

Use this item to select the power-on state for the Mum Lock. The default setting is on.

Quiet Boot

Use this item to enable or disable the Quite Boot state. The default setting is disabling.

Boot Option Priorities

Sets the system boot order

4.7 Security Menu

The Security menu allows users to change the security settings for the system.

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.					
Main Advanced	Chipset	Boot	Security	Sav	ve & Exit
Password Description If ONLY the Administra then this only limits ac only asked for when e If ONLY the User's pa is a power on passwo boot or enter Setup. In	ator's passy cess to Set ntering Set ssword is s rd and mus n Setup the	up and up. et, then t be ent	is this ered to		Set Administrator Password
have Administrator rig The password length i in the following range: minimum length maximum length Administrator Passwo User Password	must be 3 20				→ ← : Select Screen ↑↓ : Select Item Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit
Version 2.15	.1236 Copy	/right (C) 2012 <u>A</u> n	nerio	ESC :Exit can Megatrends, Inc.

Administrator Password

This item indicates whether an administrator password has been set. If the Administrator password is set, BIOS will ask and wait for administrator password entered.

User Password

This item indicates whether a user password has been set. If the password is set, BIOS will ask and wait for User password entered

4.8 Save & Exit Menu

The Save & Exit menu allows users to load your system configuration with optimal or failsafe default values.

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.			
Main Advanced Chips	et Boot	Security	Save & Exit
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Options			Exit system setup after saving the changes.
Save Changes Discard Changes			
Restore Defaults Save as User Defaults Restore User Defaults			→ ← : Select Screen ↑↓ : Select Item
Boot Override			Enter : Select + / - : Change Opt. F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit ESC : Exit
Version 2.15.1236 Copyright (C) 2012 American Megatrends, Inc.			

Save Changes and Exit

When you have completed the system configuration changes, select Save Changes and Exit from the Save & Exit menu and press <Enter>. Select Yes to save changes and exit BIOS Setup.

Discard Changes and Exit

This option provide quit Setup without making any permanent changes to the system configurationSelect Discard Changes and Exit from the Save & Exit menu and press <Enter>. Select Yes to discard changes and exit BIOS Setup.

> Save Changes and Reset

When you have completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configuration parameters can take effect. Select Save Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to save changes and reset.

Discard Changes and Reset

Select this option to quit Setup without making any permanent changes to the system configuration and reboot the computer. Select Discard Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to discard changes and reset.

> Save Changes

When you have completed the system configuration changes, select this option to save changes. Select Save Changes from the Save & Exit menu and press <Enter>. Select Yes to save changes.

> Discard Changes

Select this option to quit Setup without making any permanent changes to the system configuration. Select Discard Changes from the Save & Exit menu and press <Enter>. Select Yes to discard changes.

> Restore Defaults

It automatically sets all Setup options to a complete set of default settings when you select this option. The Optimal settings are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Optimal Setup options if your computer is experiencing system configuration problems. Select Restore Defaults from the save & Exit menu and press <Enter>.

Save as User Defaults

Select this option to save system configuration changes done so far as User Defaults. Select Save as User Defaults from the Save & Exit menu and press <Enter>.

Restore User Defaults

It automatically sets all Setup options to a complete set of User Defaults when you select this option. Select Restore User Defaults from the Save & Exit menu and press <Enter>.

APPENDIX A REFERENCE DOCUMENTS

Document	Document No./Location
Digital Signage Open Pluggable Specification	324427
JAE TX24/TX25 connector product brief	http://jae-connectors.com/en/pdf/2008-40- TX24TX25.pdf
JAE plug connector details and drawing	http://jae- connectors.com/en/product_en.cfm?l_code=E N&series_code=TX24/TX25&product_number =TX25-80P-LT-H1E
JAE receptacle connector details and drawing	http://iae- connectors.com/en/product_en.cfm?l_code=E N&series_code=TX24/TX25&product_number =TX24-80R-LT-H1E

This page is intentionally left blank.

APPENDIX B WATCHDOG TIMER

Watchdog Timer Setting

After the system stops working for a while, it can be auto-reset by the Watchdog Timer. The integrated Watchdog Timer can be set up in the system reset mode by program.

Using the Watchdog Function Start

1. Enable configuration(Following is example to enable configuration by using debug)

-O 2E 87

-O 2E 87

2. Select Logic device:

-O 2E 07

-O 2F 07

3. WDT Device Enable

-O 2E 2B

-O 2F 00

-O 2E 30

-O 2F 01

4. Activate WDT:

-O 2E F0

-O 2F 80

5. Set base timer:

-O 2E F6

-O 2F 0A → Set Reset Time (Ex. A: 10 Sec)

6. Set timer unit

-O 2E F5

-O 2F 71(1: Sec ; 9: Minute)

7. Disable WDT

-O 2E 30

-O 2F 00

Watchdog Timer

This page is intentionally left blank.

APPENDIX C iAMT SETTINGS

The Intel[®] Active Management Technology (Intel[®] iAMT) has decreased a major barrier to IT efficiency that uses built-in platform capabilities and popular third-party management and security applications to allow IT a better discovering, healing, and protection their networked computing assets.

In order to utilize Intel[®] iAMT you must enter the ME BIOS (<Ctrl + P> during system startup), change the ME BIOS password, and then select "Intel[®] iAMT" as the manageability feature.

C.1 Entering MEBx

- 1. Go to BIOS to enable iAMT function (see section 4.4).
- 2. Exit from BIOS after starting iAMT, and press <Ctrl + P> to enter MEBx Setting.

	It is
Note	

It is better to press <Ctrl + P> before the screen popping out.

C.2 Set and Change Password

1. You will be asked to set a password when first log in. The default password is "admin".

<pre>Intel(R) Management Engine BIOS Extension v9.0.0.0024/Intel(R) ME v9.0.1.1333 Copyright(C) 2003-12 Intel Corporation. All Rights Reserved.</pre>		
MAIN MENU		
MEBx Login > Intel(R) ME General Settings > Intel(R) AMT Configuration MEBx Exit		
Intel(R) ME Password		
[↓↑] = Move Highlight [Enter] = Select Entry [Esc] = Exit		

OPS883 User's Manual

2. You will be asked to change the password before setting ME.

	gine BIOS Extension v9.0.0.0024, 003-12 Intel Corporation. All P	
	MAIN MENU	
MEBX Login > Intel(R) ME General Sett: > Intel(R) AMT Configuration MEBX Exit		
Intel(R) ME Passwor	4	
[↓↑] = Move Highlight	[Enter] = Select Entry	[Esc] = Exit

- 3. You must confirm your new password while revising. The new password must contain: (example: **!!11qqQQ**) (default value).
 - Eight characters
 - One upper case
 - One lower case
 - One number
 - One special symbol, such as ! < \$ or ; , (, ", excepted)

Underline ($_$) and space are valid characters for password, but they won't make higher complexity.

C.3 iAMT Settings

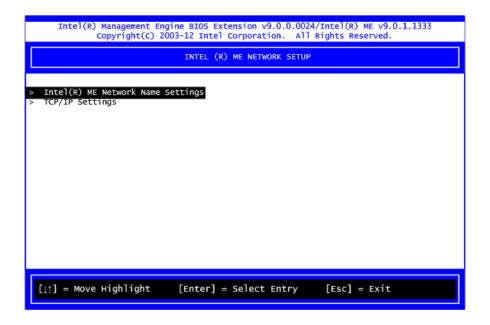
Select $Intel^{\ensuremath{\mathbb{R}}}$ iAMT configuration and press <Enter>.

Intel(R) Management Engin Copyright(C) 2003	ne BIOS Extension v9.0.0.0024 3-12 Intel Corporation. All	//Intel(R) ME v9.0.1.1333 Rights Reserved.
	MAIN MENU	
<pre>> Intel(R) ME General Settings > Intel(R) AMT Configuration MEBX Exit</pre>	5	
[⊥↑] = Move Highlight	[Enter] = Select Entry	[Esc] = Exit

1. Select Network Setup to configure iAMT.

	<pre>Intel(R) Management Engine BIOS Extension v9.0.0.0024/Intel(R) ME v9.0.1.1333 Copyright(C) 2003-12 Intel Corporation. All Rights Reserved.</pre>			
	INTEL (R) AMT CONFIGURATION			
~ ~ ~ ~ ~	Manageability Feature Selection Enabled> SOL/IDER/KVM User Consent Password Policy <anytime> Network Setup Activate Network Access Unconfigure Network Access <full unprovision=""> Remote Setup And Configuration Power Control</full></anytime>			
	↓↑] = Move Highlight [Enter] = Select Entry [Esc] = Exit			

2. Select TCP/IP to get into Network interface and set it to Enabled. Get into DHCP Mode and set it to Disabled.



<pre>Intel(R) Management Engine BIOS Extension v9.0.0.0024/Intel(R) ME v9.0.1.1333 Copyright(C) 2003-12 Intel Corporation. All Rights Reserved.</pre>			
	WIRED LAN IPV4 CONFIGURATION		
DHCP Mode	<enabled></enabled>		
Enable/Disable IPV4 DHCP Mode			
[↓↑] = Move Highlight	[Enter] = Select Entry [Esc] = Exit		

- 3. If DHCP Mode is disabled, set the following settings:
 - IP address
 - Subnet mask

Intel(R) Management Engine BIOS Extension v9.0.0.0024/Intel(R) ME v9.0.1.1333 Copyright(C) 2003-12 Intel Corporation. All Rights Reserved.				
WIRED LAN IPV4 CONFIGURATION				
DHCP Mode IPV4 Address Subnet Mask Address Default Gateway Address Preferred DNS Address Alternate DNS Address	<pre></pre>			
<entr< th=""><th>er> = Complete Entry [Esc] = Discard Changes</th></entr<>	er> = Complete Entry [Esc] = Discard Changes			

4. Go back to $\text{Intel}^{\text{®}}$ iAMT Configuration, then select Activate Network Access and press <Enter>.

<pre>Intel(R) Management Engine BIOS Extension v9.0.0.0024/Intel(R) ME v9.0.1.1333 Copyright(C) 2003-12 Intel Corporation. All Rights Reserved.</pre>				
INTEL (R) AMT CONFIGURATION				
Manageability Feature Selectio > SOL/IDER/KVM > User Consent Password Policy > Network Setup	n <enabled> <anytime></anytime></enabled>			
Activate Network Access Unconfigure Network Access > Remote Setup And Configurati > Power Control	and opens the ME network settings Continue: (Y/N)			
[L↑] = Move Highlight [E	nter] = Select Entry [Esc] = Exit			

5. Exit from MEBx after completing the iAMT settings.

C.4 iAMT Web Console

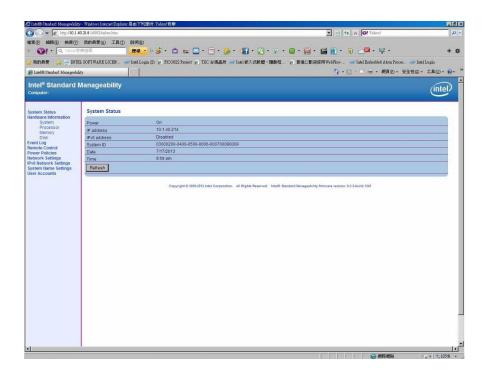
1. From a web browser, please type http://(IP ADDRESS):16992, which connects to iAMT Web.

Example: <u>http://10.1.40.214:16992</u>

🖉 Intel® Active Management Technology - Windows Internet Explorer		- 8 X
(C) - 2 http://10.1.40.214:16992/logon.htm	Google 😽 🖌	P •
😭 🏘 🎉 Intel® Active Management Technology	🟠 • 🔝 👘 🖶 • 🔂 網頁(P	?) • ◎ 工具(0) • 》
Intel® Active Management Technology		(intel)
Log On Log on to Intel® Active Management Technology on this computer.		
Log on to intel® Active Management rechnology on this computer.		
Log On		
		~
	😔 網際網路	🔍 100% 🔹 💡

2. To log on, you will be required to type in username and password for access to the Web.

USER: admin (default value) PASS: (MEBx password) 3. Enter the iAMT Web.



4. Click Remote Control, and select commands on the right side.

🕞 🗢 🙋 http://10.1.4	10.214/16992/semole.htm	💽 🗟 🍫 🗙 🞯 Yahool	P
KE 编辑 E 被視 (Y)	我的最爱(A) 工具(D) 説明(B)		
1 • Q. Vanos 2	康陵草 🧱 🛃 🔸 💰 マ 🤷 😋 マ 🔤 マ 😥 マ 🚮 マ 😫 マ 🖉 🤉	• 🏼 • 🚔 • 🎬 🛅 • 🌒 🕗 🕮 • 💱 •	+ 1
我的暴爱 😽 🛞 🕞 IN TH	EL SOFTWARE LICEN. 😅 Intel Login (2) 🧧 PICO822 Project 💼 TXC 台湾晶技 🥪 Intel 嵌入式軟體、驅動程	😕 黄連仁歡迎使用 WebFlow 😁 Iatel Embedded Atom Proces 🥶	Intel Login
Intel® Standard Manageabi	ity I	💁 • 🗔 · 🖻 🖷 • 網頁@ • 安全性	s• I40• 💀
itel® Standard I	Managoability		\sim
mputer:	wanageability		(intel)
an			
stem Status	Remote Control		
rdware Information System Processor	Contraction		
Memory	Power state: On Send a command to this computer:		
Disk nt Log	Turn power off* Select a boot option.		
ote Control er Policies	C Cycle power off and on* Normal boot Boot from local CD/DVD drive		
vork Settings Network Settings	C Reset* Boot from local hard drive		
em Name Settings	C Graceful Shutdown*		
Accounts	"Caution: These commands may cause user application data loss.		
	Send Command		

5. When you have finished using the iAMT Web console, close the Web browser.

This page is intentionally left blank.