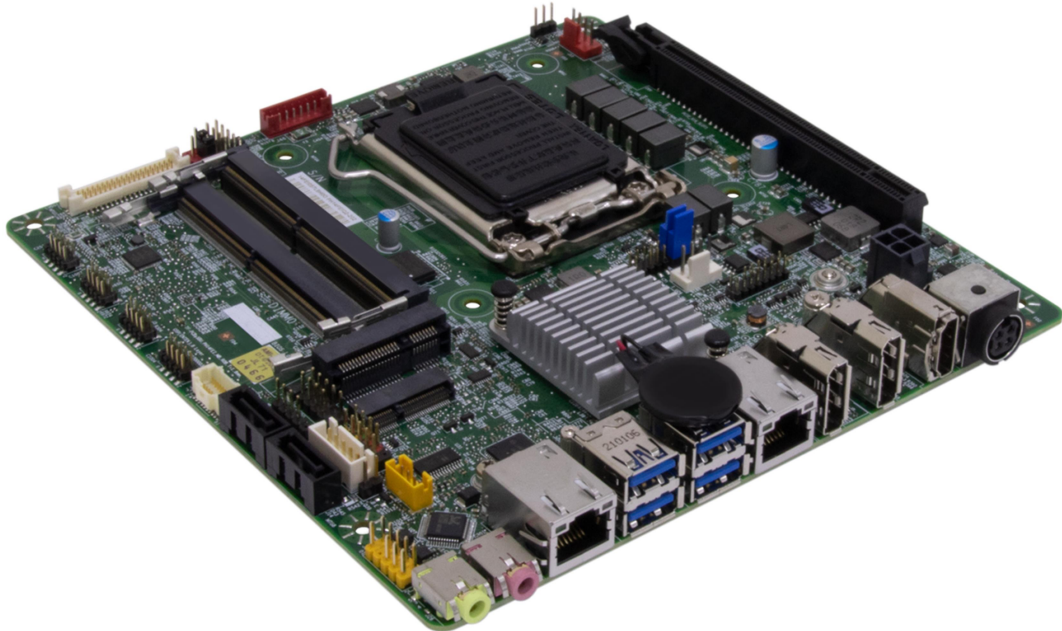


INS8365B

*Intel® Coffee Lake-R 8/9th Processor with
Q370 Chipset Mini-ITX*



Safety Information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area.
- If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your local distributor.

Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter any technical problems with the product, contact your local distributor

Statement

- All rights reserved. No part of this publication may be reproduced in any form or by any means, without prior written permission from the publisher.
- All trademarks are the properties of the respective owners.
- All product specifications are subject to change without prior notice

RoHS Compliance



Perfectron RoHS Environmental Policy and Status Update

Perfectron is a global citizen for building the digital infrastructure. We are committed to providing green products and services, which are compliant with

European Union RoHS (Restriction on Use of Hazardous Substance in Electronic Equipment) directive 2011/65/EU, to be your trusted green partner and to protect our environment.

In order to meet the RoHS compliant directives, Perfectron has established an engineering and manufacturing task force to implement the introduction of green products. The task force will ensure that we follow the standard Perfectron development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which Perfectron are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant

Revision History

Revision	Date (yyyy/mm/dd)	Changes
V1.0	2022/05/04	First release

Packing List

Item	Description	Q'ty
1	INS8365B	1
2	CD(Driver + User's manual)	1



If any of the above items is damaged or missing, please contact your local distributor.

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Chapter 1 : Product Introduction

1.1 Specifications

System

CPU	9th & 8th Gen Intel Coffee Lake LGA1151 Socket Processor, Core i7/i5/i3 6-core TDP Max. 95W, Core i9 8-core TDP Max 35W
System Memory	DDR4 2666MHz, 2 x 260-pin SO-DIMM, Max. 64GB (Non-ECC)
Chipset	Intel Q370 (Support RAID 0 / 1) support vPro
Graphics	Intel® HD Graphics
I/O Chipset	Nuvoton NCT6116D
TPM	TPM Header
BIOS	AMI BIOS / 256 Mbit SPI
H/W Monitor	Temperature Monitor / Voltage Monitor / Fan Monitor
Watchdog Timer	1~255 steps by software program

Expansion

M.2	1 x M.2 2230 E key (PCIe / USB) / 1 x M.2 2260 / 2280 M key (Gen3 PCIeX4, SATAIII)
Mini PCIe	1 x Mini PCIe Full size (PCIe / USB / SATAIII)
PCIe Slot	1 x PCIe 3.0 X16 slot

Display

HDMI	Up to 4K (4096 x 2160) @30 Hz
Dsisplayport	Up to 4K (4096 x 2304) @60 Hz
LVDS	Up to 1920 x 1200 @60 Hz

Ethernet

Chipset	Intel® I219-LM Giga LAN + Intel® I210-AT Giga LAN
---------	---

Audio

Codec	Realtek® ALC662
-------	-----------------

Rear I/O

USB	4 x USB 3.0
Display I/O	1 x HDMI 1.4 / 2 x DisplayPort 1.2
Audio I/O	1 x Mic-in / 1 x Line-out
LAN	2 x RJ-45
Power	1 x DIN – 4pin DC Jack

Internal I/O

Storage	2 x SATAIII
USB	5 x USB 2.0
Display I/O	1 x LVDS / 1 x Backlight Connector
Audio I/O	1 x Speaker 2W
Serial Port	4 x RS232 (two supports RS232/422/485 select by BIOS)
GPIO	1 x MiAPI Header (Programmable)
Fan	1 x 4-pin CPU Fan Header / 1 x 4-pin System Fan Header
Power	1 x ATX 4-pin Power Connector, 1 x AT / ATX Mode Select Jumper
Others	1 x Front Audio Header (Mic-in / Line-out), 1 x CMOS Jumper, 1 x panel power select header, 1 x backlight power select header, 1x buzzer header

Environmental

Form Factor	Mini ITX
Power Type	DC-IN 12V DIN 4-pin connector / ATX 4pin 12V
Dimension	170 mm x 170mm
Operating TEMP.	ET : -20 ~ 70°C UT : -40 ~ 85°C
Storage TEMP.	-40 ~ 85°C (-40 ~ 185°F)
Relative Hum.	10% ~ 95% R/H (Non-condensing)

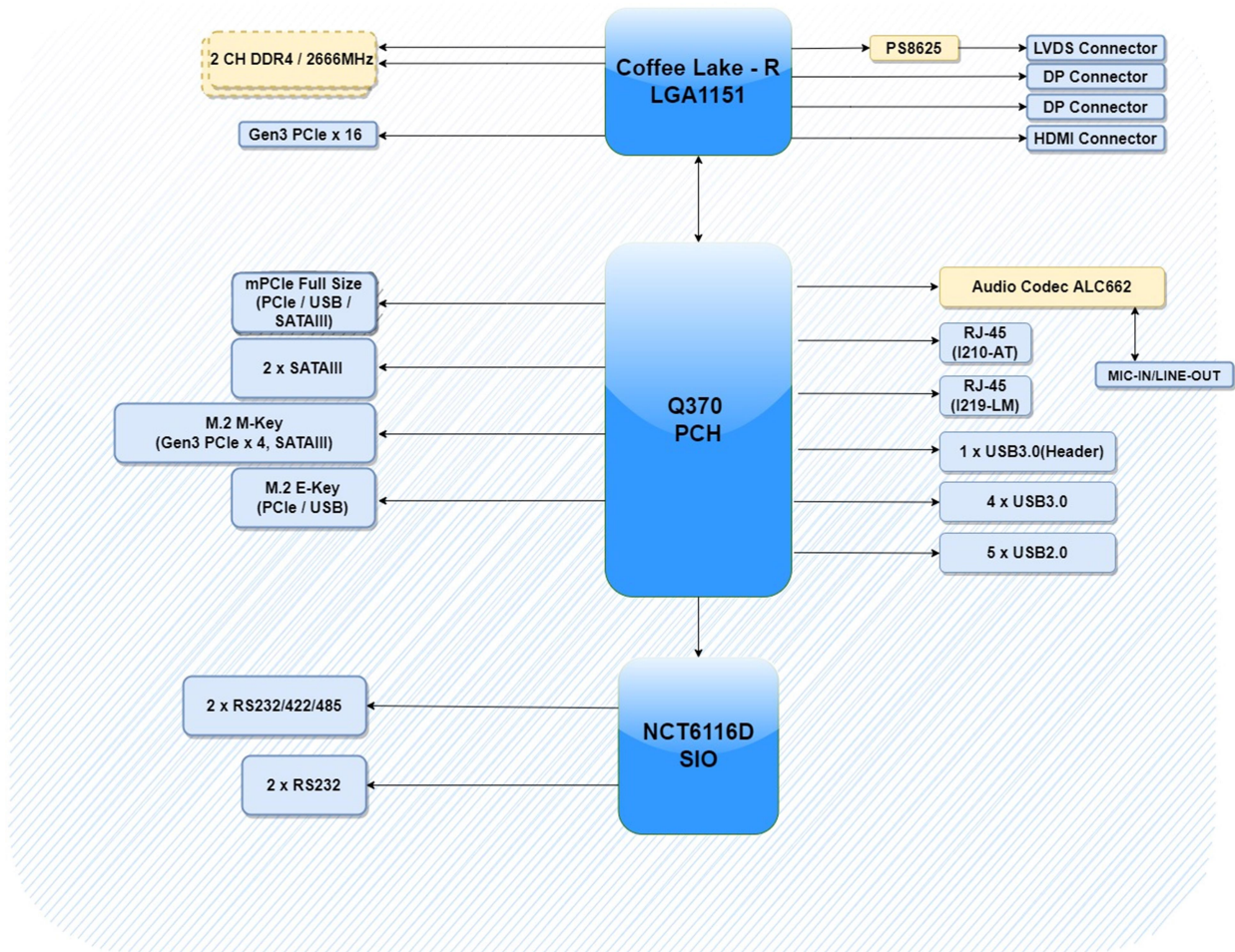
Standard Compliance

Standart Compliance	CE / FCC
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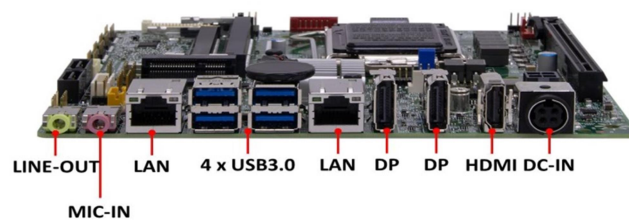
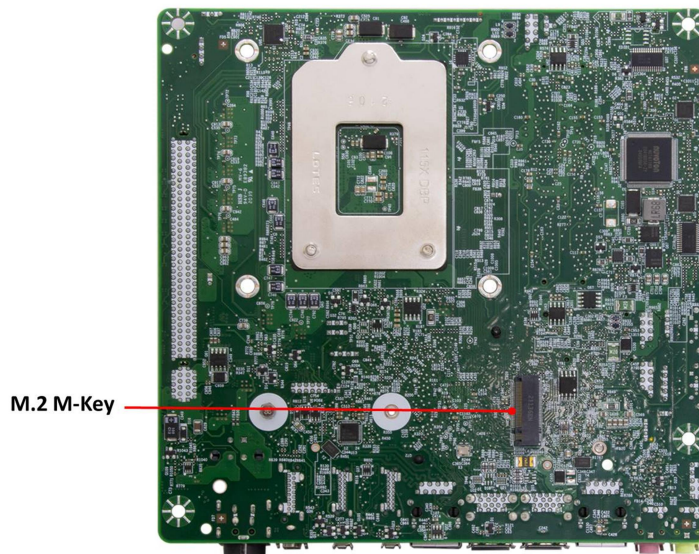
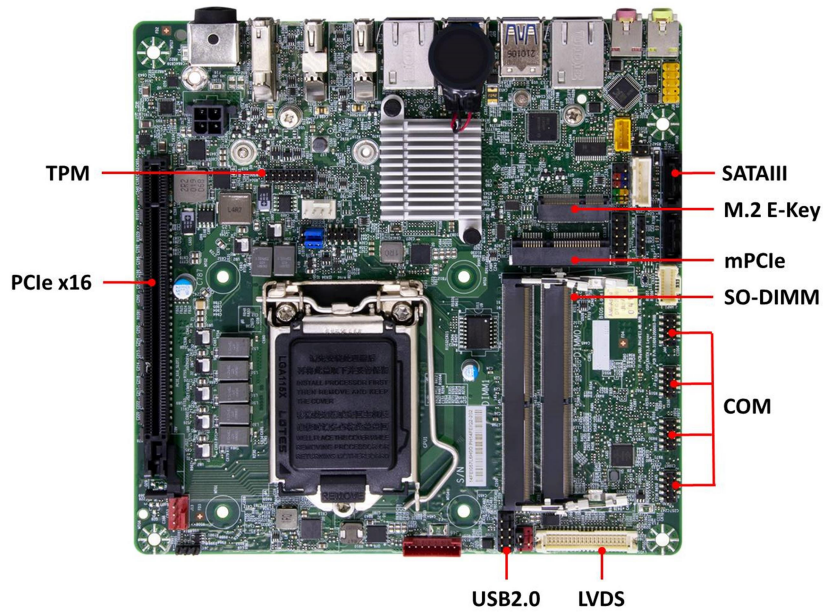
OS

OS Support	Windows®10 64-bit Linux(Support by request)
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1.2 Block Diagram



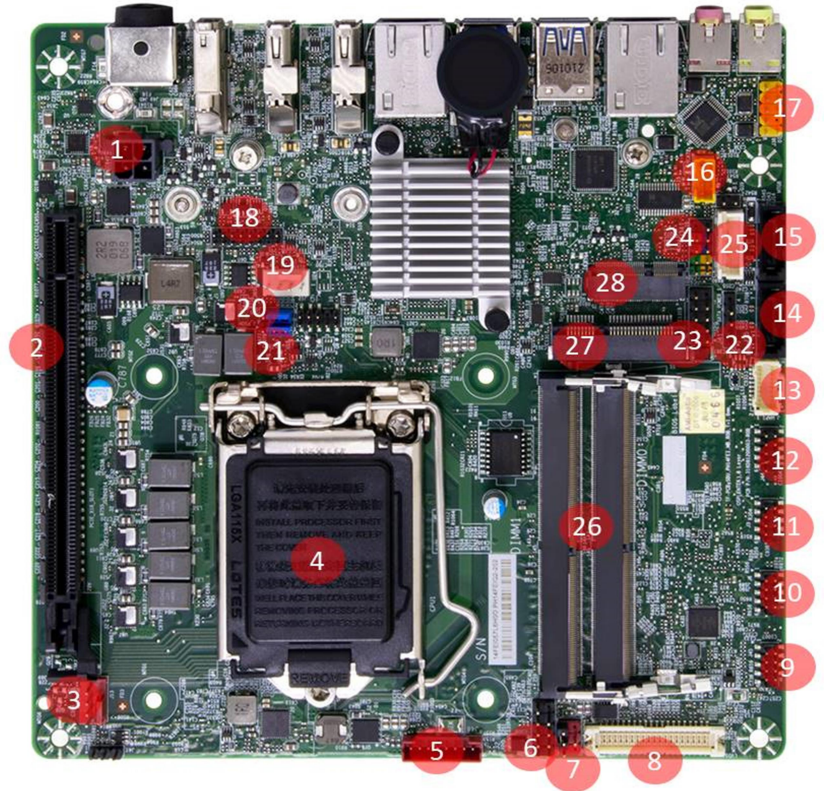
1.3 Board Placement



Chapter 2 : Jumpers and Connectors Location

2.1 Jumpers And Connectors List

Label	Function
1	ATX 4pin
2	PCIe x16 Slot
3	System Fan Header
4	CPU Socket
5	LVDS Backlight Header
6	Dual USB2.0 header
7	Panel Power Jumper
8	LVDS Connector
9	RS232 Header
10	RS232/422/485 Header
11	RS232/422/485 Header
12	RS232 Header
13	MiAPI Header
14	SATA Connector
15	SATA Connector
16	Internal Speaker Header
17	Front Audio Header
18	TPM Header
19	CPU FAN
20	AT/ATX Mode Jumper
21	Clear CMOS Header
22	USB2.0 Header
23	Dual USB2.0 header
24	Front Panel Header
25	SATA Power Header
26	DDR4 SO-DIMM Socket
27	mPCIe Slot
28	M.2 2230 E-Key Slot
29	M.2 2280 M-Key Slot



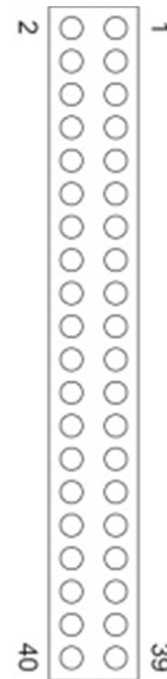
2.2 Jumper Settings

Front Panel Header

PIN	DEFINITION	PIN	DEFINITION
1	HDD_POWER_LED	2	POWER_LED_MAIN
3	HDD_LED#	4	POWER_LED_ALT
5	GND	6	POWER_SWITCH#
7	RESET_SWITCH#	8	GND
9	+5V_DC	10	Key(no pin)

LVDS Connector

PIN	DEFINITION	PIN	DEFINITION
1	VCC3	2	Panel Power
3	VCC3	4	Panel Power
5	LVDS_DDC_SCL	6	LVDS_DDC_SDA
7	GND (CABLE_ID1)	8	GND
9	LVDS0_LINK1_CON_DP	10	LVDS0_LINK0_CON_DP
11	LVDS0_LINK1_CON_DN	12	LVDS0_LINK0_CON_DN
13	CABLE_ID2 (reserved)	14	CABLE_ID3 (reserved)
15	LVDS0_LINK3_CON_DP	16	LVDS0_LINK2_CON_DP
17	LVDS0_LINK3_CON_DN	18	LVDS0_LINK2_CON_DN
19	GND	20	GND
21	LVDS1_LINK1_CON_DP	22	LVDS1_LINK0_CON_DP
23	LVDS1_LINK1_CON_DN	24	LVDS1_LINK0_CON_DN
25	GND	26	GND
27	LVDS1_LINK3_CON_DP	28	LVDS1_LINK2_CON_DP
29	LVDS1_LINK3_CON_DN	30	LVDS1_LINK2_CON_DN
31	GND	32	GND
33	LVDS1_CLK_CON_DP	34	LVDS0_CLK_CON_DP
35	LVDS1_CLK_CON_DN	36	LVDS0_CLK_CON_DN
37	GND	38	GND
39	+12V	40	+12V



LVDS Backlight Header

PIN	DEFINITION
1	LVDS_BKTEN_R
2	LVDS_PWM
3	BKLT_PWR (12v)
4	BKLT_PWR (12v)
5	GND
6	GND
7	BRIGHT_UP-
8	BRIGHT_DOWN-



Dual USB2.0 Header

PIN	DEFINITION	PIN	DEFINITION
1	5V_USB	2	5V_USB
3	Data (negative)	4	Data (negative)
5	Data (positive)	6	Data (positive)
7	GND	8	GND
9	Key (no pin)	10	No Connect

USB2.0 Header

PIN	DEFINITION
1	5V_USB
2	Data (negative)
3	Data (positive)
4	GND
5	Key (no pin)

Front Audio Header

PIN	DEFINITION	PIN	DEFINITION
1	MIC	2	AUD_GND
3	MIC_BIAS	4	Presence
5	FP_OUT_R	6	AUD_SENSE_MIC_FP
7	FIO_SENSE	8	Key(no pin)
9	FP_OUT_L	10	AUD_SENSE_HP

Internal Speaker Header

PIN	DEFINITION
1	Front_L-
2	Front_L+
3	Front_R+
4	Front_R-

Serial Port Pin-Out

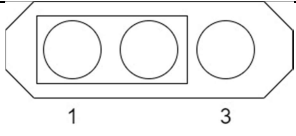
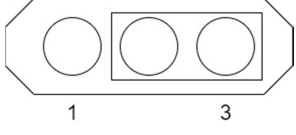
PIN	DEFINITION
1	DCD
2	RXD#
3	TXD#
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

CPU FAN Header

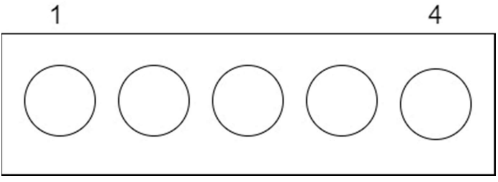
PIN	DEFINITION
1	GND
2	+12V

3	CPU_FAN_TACH	
4	CPU_FAN_CTRL	

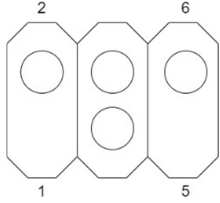
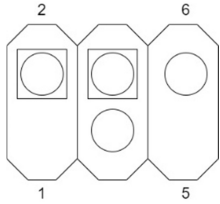
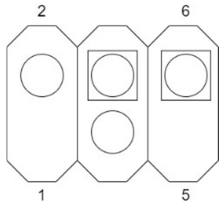
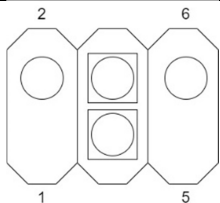
Clear CMOS Header

PIN	DEFINITION	
1-2	Clear CMOS	
2-3	Normal(Default)	

SATA Power Header

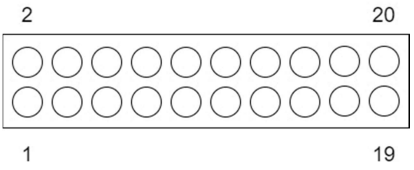
PIN	DEFINITION	
1	VCC3	
2	GND	
3	VCC3	
4	GND	
5	+12V	

Panel Power Option

PIN	DEFINITION	PIN	DEFINITION	
1	Key(no pin)	2	3.3V	
3	12V	4	LCD_VCC	
5	Key(no pin)	6	5V	
3.3V(Default)				
5V				
12V				

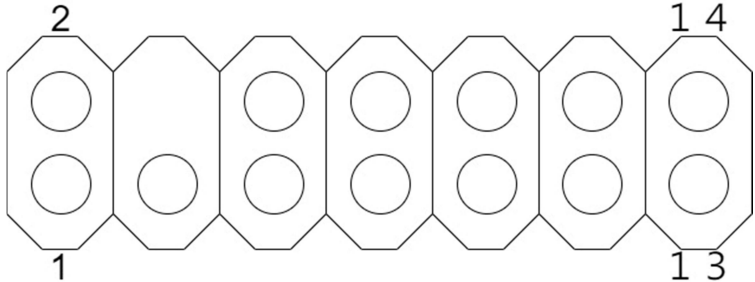
MiAPI Header

PIN	DEFINITION	PIN	DEFINITION
1	MAPI_GPIO1	2	VCC
3	MAPI_GPIO2	4	MAPI_GPIO6
5	MAPI_GPIO3	6	MAPI_GPIO7
7	MAPI_GPIO4	8	MAPI_GPIO8
9	MAPI_GPIO5	10	MAPI_GPIO9
11	WD_Time	12	MAPI_GPIO10
13	Power Button	14	SMBUS_DATA
15	UART_TX	16	SMBUS_CLK
17	UART_RX	18	5VSB
19	GND	20	N/A



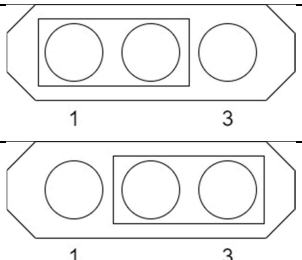
TPM Header

PIN	DEFINITION
1	VSB_3V3
2	TPM_CS2
3	TPM_MISO
4	Key(no pin)
5	TPM_MOSI
6	PLTRST_N
7	PRIQ_N
8	GND
9	N/A
10	TPM_CLK
11	N/A
12	TPM_DET
13	N/A
14	VCC3_TPM



AT/ATX Mode Jumper

PIN	DEFINITION
1-2	AT Mode
2-3	ATX Mode(Default)



Chapter 3: AMI BIOS UTILITY

This chapter provides users with detailed descriptions on how to set up a basic system configuration through the AMI BIOS setup utility.

3.1 Starting

To enter the setup screens, perform the following steps:

- Turn on the computer and press the key immediately.
- After the key is pressed, the main BIOS setup menu displays. Other setup screens can be accessed from the main BIOS setup menu, such as the Chipset and Power menus.

3.2 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.

Some of the hot keys are <F1>, <F10>, <Enter>, <ESC>, and <Arrow> keys.



Some of the navigation keys may differ from one screen to another.

Left/Right	The Left and Right <Arrow> keys moves the cursor to select a menu.
Up/Down	The Up and Down <Arrow> keys moves the cursor to select a setup screen or sub-screen.
+– Plus/Minus	The Plus and Minus <Arrow> keys changes the field value of a particular setup setting.
Tab	The <Tab> key selects the setup fields.
F1	The <F1> key displays the General Help screen.
F10	The <F10> key saves any changes made and exits the BIOS setup utility.
Esc	The <Esc> key discards any changes made and exits the BIOS setup utility.
Enter	The <Enter> key displays a sub-screen or changes a selected or highlighted option in each menu.

3.3 Main Page

Main	Advanced	Chipset	Security	Boot	Save & Exit	Item help
BIOS Information						Item help →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
BIOS Vender		American Megatrends				
Core Version		5.13				
Compliancy		UEFI 2.6 ; PI 1.4				
BIOS Version		D7980A01				
Build Date and Time		04/21/2017				
ME FW Version		11.8.50.3399				
Processor Information						
Intel(R) CORE(TM) i3-9100 CPU @ 3.60GHz						
Memory Information						
Total Memory		32768 MB				
DIMM#1		16384 MB (DDR4)				
DIMM#2		16384 MB (DDR4)				
Memory Frequency		2133 MHz				
SATA1		Empty				
SATA2		Empty				
SATA3		Empty				
SATA4(M.2)		Empty				
System Date		[Www mm/dd/yyyy]				
System Time		[hh:mm:ss]				
Version 2.18.1264. Copyright (C) 2017 American Megatrends, Inc.						

Field Name	BIOS Vendr
Default Value	American Megatrends
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Core Version
Default Value	5.17
Comment	This field is not selectable. There is no help text associated with it

Field Name	Compliancy
Default Value	UEFI 2.6 ; PI 1.4
Comment	This field is not selectable. There is no help text associated with it

Field Name	BIOS Version
Default Value	Display the version of the BIOS

Comment	This field is not selectable. There is no help text associated with it
---------	--

Field Name	Build Date and Time
Default Value	Display build date of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME FW Version
Default Value	ME Firmware Version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Processor Information
Default Value	Display the installed CPU brand.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Microcode Version
Default Value	Display the CPU microcode revision.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Total Memory
Default Value	Display the installed memory size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	DIMM#[1:2]
Default Value	Memory in the DIMM.
Comment	This field is not selectable. There is no help text associated with it

Field Name	Memory Frequency
Default Value	Display the installed memory Frequency
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA1
Default Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it

Field Name	System Date
Default Value	[Www mm/dd/yyyy]
Possible Value	Www : Mon/Tue/Wed/Thu/Fri/Sat/Sun mm : 1-12 dd : 1-31 yyyy : 1998-2099
Help	Set the Date. Use Tab to switch between Date elements.

Field Name	System Time
Default Value	[hh :mm :ss]
Possible Value	hh : 0-23 mm : 0-59

	ss : 0-59
Help	Set the Time. Use Tab to switch between Time elements.

3.4 Advance Page

Main	Advanced	Chipset	Security	Boot	Save & Exit
<ul style="list-style-type: none"> ▶ CPU Configuration ▶ Trusted Computing ▶ ACPI Settings ▶ SMART Settings ▶ Super IO Configuration ▶ NCT6116D HW Monitor ▶ S5 RTC Wake Settings ▶ NVMe Configuration ▶ Network Stack Configuration 					<p>Item help</p> <p>→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit</p>
Version 2.18.1264. Copyright (C) 2017 American Megatrends, Inc.					

Field Name	CPU Configuration
Help	CPU Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Trusted Computing
Help	Trusted Computing Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	ACPI Settings
Help	System ACPI Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	SMART Settings
Help	System SMART Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Super IO Configuration
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	HW Monitor
-------------------	-------------------

Help	Monitor hardware status
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	S5 RTC Wake Settings
Help	Enable system to wake from S5 using RTC alarm
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Network Stack Configuration
Help	Network Stack Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	NVMe Configuration
Help	NVMe Device Options Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.4.1 CPU Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
CPU Configuration					Item help
Type	Intel(R) Core(TM) CPU i3-9100 @ 3.60 GHz				
ID	0x806E9				
Speed	3600 MHz				
L1 Data Cache	32 KB x 2				
L1 Instruction Cache	32 KB x 2				
L2 Cache	256 KB x 2				
L3 Cache	3MB				
L4 Cache	N/A				
VMX	Supported				
SMX/TXT	Supported				
Intel Trusted Execution Technology	[Disabled]				→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Version 2.18.1264. Copyright (C) 2017 American Megatrends, Inc.					

Field Name	Type
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ID
Default Value	Displays CPU Signature
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Speed
Default Value	Displays the CPU Speed
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Data Cache
Default Value	L1 Data Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Instruction Cache
Default Value	L1 Instruction Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L2 Cache
Default Value	L2 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L3 Cache
Default Value	L3 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L4 Cache
Default Value	L4 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VXM
Default Value	L3 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SMX/TXT
Default Value	SMX/TXT Supported or Not
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Intel Trusted Execution Technology(Dependent on dTPM enable)
Default Value	SMX/TXT Supported or Not
Possible Value	Enabled Disabled
Help	Enables utilization of additional hardware capabilities provided by Intel (R) Trusted Execution Technology. Changes require a full power cycle to take effect.

3.4.2 Trusted Computing(Optional)

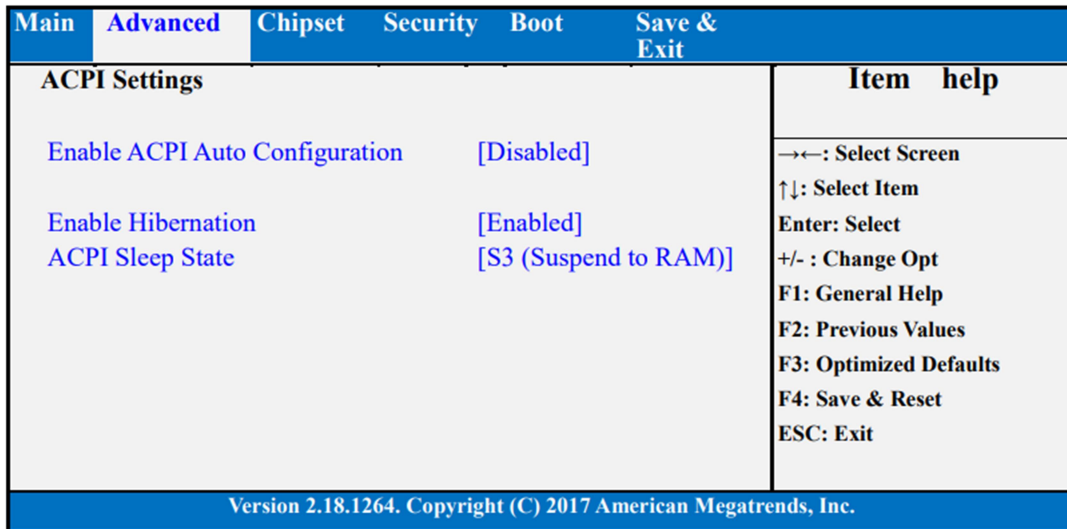
Main	Advanced	Chipset	Security	Boot	Save & Exit
TPM20 Device Found Vender : NTC Firmware Version: 1.3 Security Device Support [Enable] Pending operation [None] TPM2.0 UEFI Spec Version [TCG_2]					Item help →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Security Device Support
Default Value	[Enable]
Possible Value	Enable Disable
Help	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.

Field Name	Pending operation
Default Value	[None]
Possible Value	None TPM Clear
Help	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.

Field Name	TPM2.0 UEFI Spec Version
Default Value	[TCG_2]
Possible Value	TCG_1_2 TCG_2
Help	Select the TCG2 Spec Version Support, TCG_1_2: the Compatible mode for Win8/Win10, TCG_2: Support new TCG2 protocol and event format for Win10 or later.

3.4.3 ACPI Settings



Field Name	Enable ACPI Auto Configuration
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enables or Disables BIOS ACPI Auto Configuration.

Field Name	Enable Hibernation
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not effective with some operating systems.

Field Name	ACPI Sleep State
Default Value	[S3 (Suspend to RAM)]
Possible Value	Suspend Disabled S3 (Suspend to RAM)
Help	Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.

3.4.4 SMART Settings

Main	Advanced	Chipset	Security	Boot	Save & Exit
SMART Settings					Item help
SMART Self Test [Disabled]					→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	SMART Self Test
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Run SMART Self Test on all HDDs during POST.

3.4.5 Super IO Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
SIO Configuration					Item help
Super IO Chip NCT6116D					→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
▶ Serial Port 1 Configuration					
▶ Serial Port 2 Configuration					
▶ Serial Port 3 Configuration					
▶ Serial Port 4 Configuration					
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Field Name	Serial Port 1 Configuration
Help	Set Parameters of Serial Port 1 (COMA)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 2 Configuration
Help	Set Parameters of Serial Port 2 (COMB)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 3 Configuration
Help	Set Parameters of Serial Port 3 (COMC)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 4 Configuration
Help	Set Parameters of Serial Port 4 (COMD)
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.4.6 Serial Port 1 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
Serial Port 1 Configuration					Item help
Serial Port				[Enabled]	→←: Select Screen
Device Settings				IO=3E8h; IRQ=7;	↑ ↓: Select Item
Change Settings				[Auto]	Enter: Select
Mode Configuration				[3T/5R RS232]	+/- : Change Opt
					F1: General Help
					F2: Previous Values
					F3: Optimized Defaults
					F4: Save & Reset
					ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM1 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[AUTO]
Possible Value	Auto IO=3E8h; IRQ=7; IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=3F0h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

Field Name	Mode Configuration
Default Value	[3T/5R RS232]
Possible Value	1T/1R RS422 3T/5R RS232 1T/1R RS485 TX ENABLE Low Active 1T/1R RS485 with termination resistor TX ENABLE Low Active Disabled
Help	Configure serial port as RS232/RS422/RS485.

3.4.7 Serial Port 2 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
Serial Port 2 Configuration					Item help
Serial Port				[Enabled]	→←: Select Screen
Device Settings				IO=2E8h; IRQ=7;	↑ ↓: Select Item
Change Settings				[Auto]	Enter: Select
Mode Configuration				[3T/5R RS232]	+/- : Change Opt
					F1: General Help
					F2: Previous Values
					F3: Optimized Defaults
					F4: Save & Reset
					ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM2 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[AUTO]
Possible Value	Auto IO=2E8h; IRQ=7; IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=3F0h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

Field Name	Mode Configuration
Default Value	[3T/5R RS232]
Possible Value	1T/1R RS422; 3T/5R RS232; 1T/1R RS485 TX ENABLE Low Active 1T/1R RS485 with termination resistor TX ENABLE Low Active Disabled
Help	Configure serial port as RS232/RS422/RS485.

3.4.8 Serial Port 3 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
Serial Port 3 Configuration					Item help
Serial Port				[Enabled]	→←: Select Screen
Device Settings				IO=2F0h; IRQ=7;	↑ ↓ : Select Item
Change Settings				[Auto]	Enter: Select
					+/- : Change Opt
					F1: General Help
					F2: Previous Values
					F3: Optimized Defaults
					F4: Save & Reset
					ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM2 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[AUTO]
Possible Value	Auto IO=2E0h; IRQ=7; IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;

Help	Select an optimal settings for Super IO Device
------	--

3.4.9 Serial Port 4 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
Serial Port 4 Configuration					Item help
Serial Port				[Enabled]	→←: Select Screen
Device Settings				IO=3F8h; IRQ=4;	↑ ↓ : Select Item
Change Settings				[Auto]	Enter: Select
					+/- : Change Opt
					F1: General Help
					F2: Previous Values
					F3: Optimized Defaults
					F4: Save & Reset
					ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port(COM)

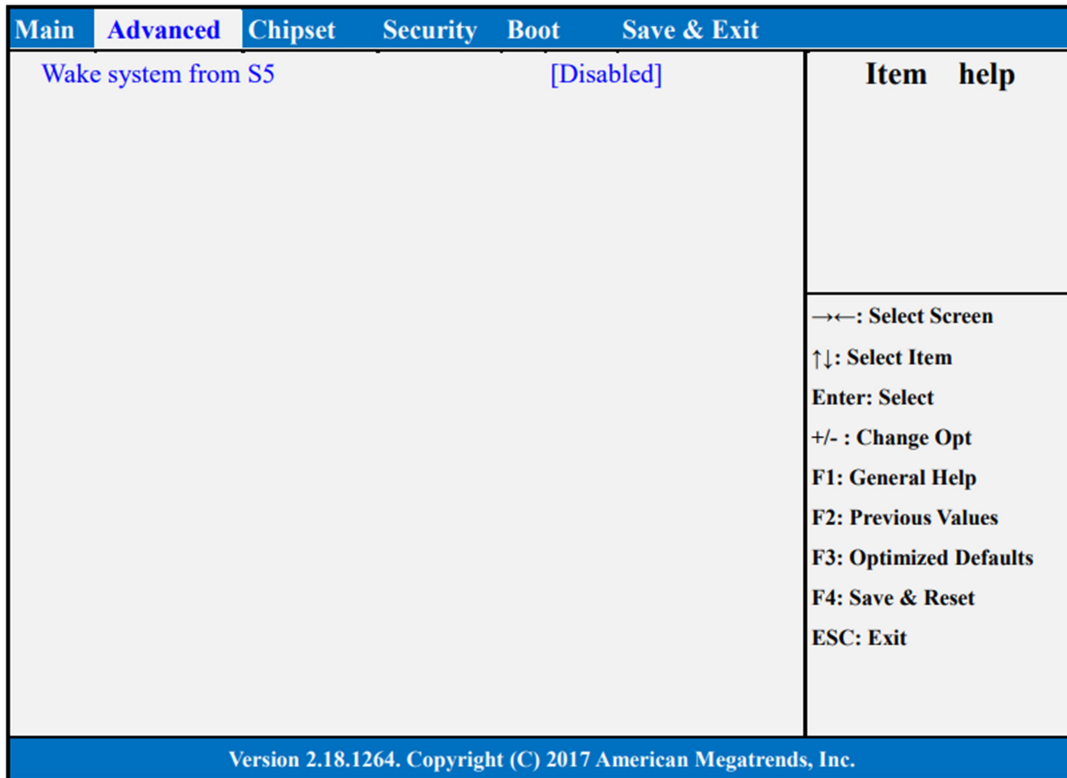
Field Name	Device Settings
Default Value	Device Super IO COM2 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[AUTO]
Possible Value	Auto IO=3F8h; IRQ=7; IO=3F8h; IRQ=3,4,5,6,7,9,10,11,12; IO=2F8h; IRQ=3,4,5,6,7,9,10,11,12; IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12; IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

3.4.10 Hardware Monitor

Main	Advanced	Chipset	Security	Boot	Save & Exit
PC Health Status					Item help
CPU temperature				: xx °C	→←: Select Screen
CPU VR temperature				: xx °C	↑↓: Select Item
DIMM temperature				: xx °C	Enter: Select
CPU Fan Speed				: xxxx RPM	+/- : Change Opt
System Fan Speed				: xxxx RPM	
VCORE				: x.xxx V	F1: General Help
PCH IO volt				: x.xxx V	F2: Previous Values
System Memory				: x.xxx V	F3: Optimized Defaults
AVSB				: x.xxx V	F4: Save & Reset
VS3V				: x.xxx V	ESC: Exit
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3.4.11 RTC Wake Settings



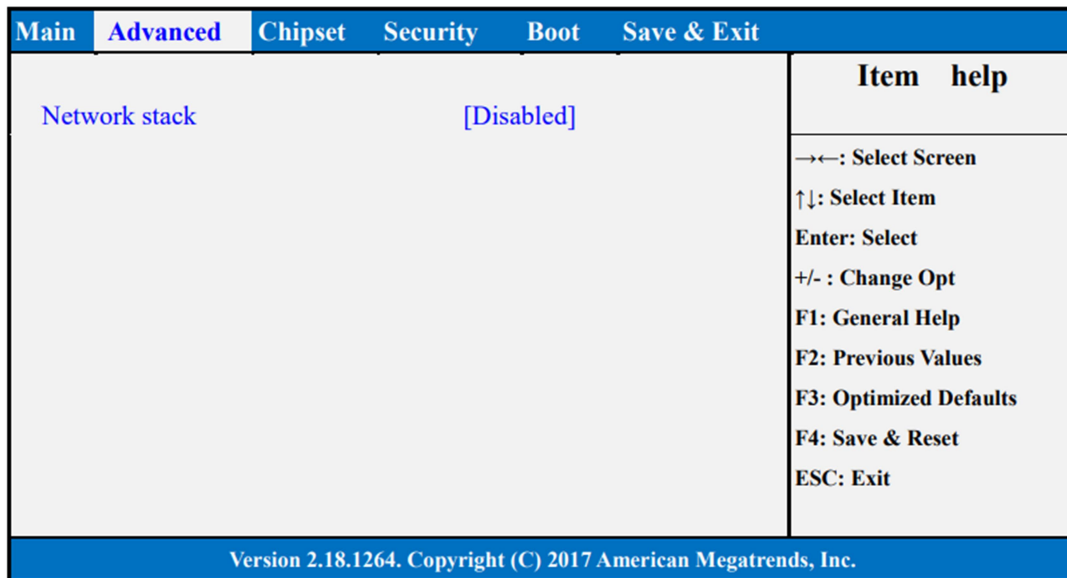
Field Name	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled Fixed Time
Help	Enable or disable System wake on alarm event, Select FixedTime, system will wake on the hr::min::sec specified.

Field Name	Wake up hour(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-23
Help	Select 0-23 For example enter 3 for 3am and 15 for 3pm

Field Name	Wake up hour(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-59
Help	Select 0-59 For Minute

Field Name	Wake up hour(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-59
Help	Select 0-59 For Second

3.4.12 Network Stack Configuration

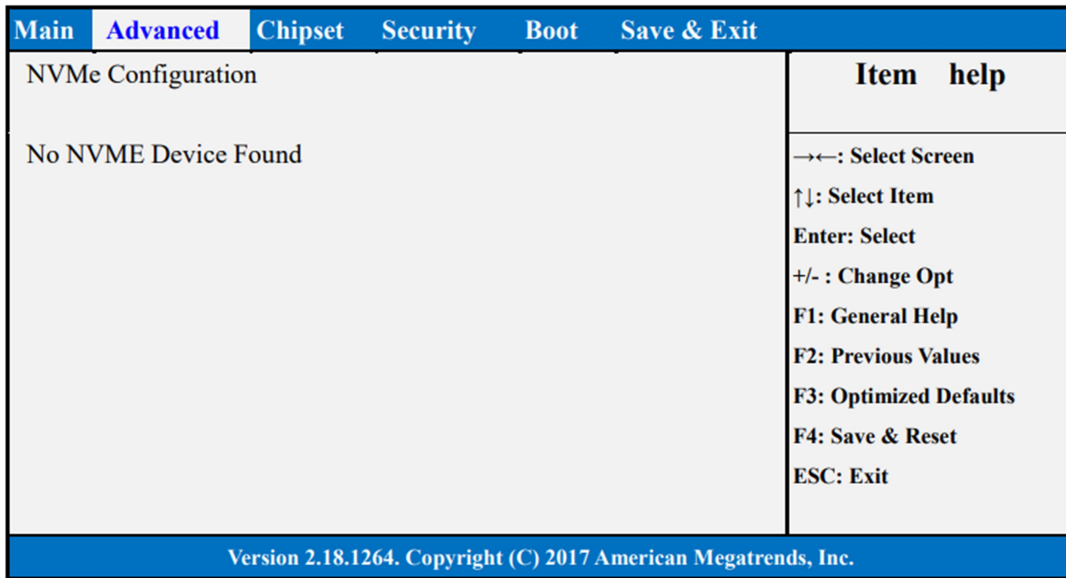


Field Name	Network stack
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enable/Disable UEFI Network stack.

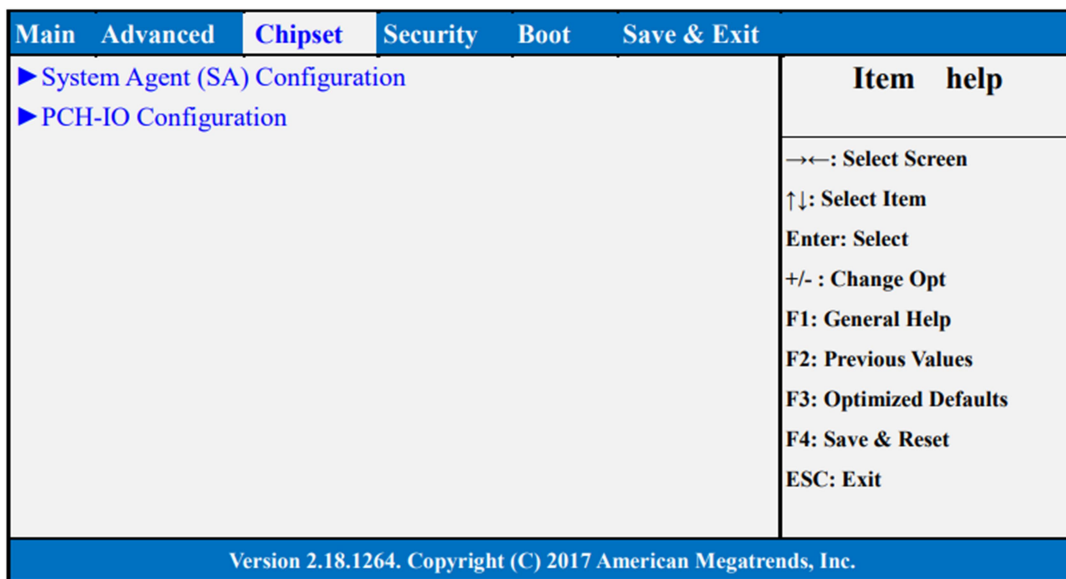
Field Name	Ipv4 PXE Support (Available when Network stack Enabled)
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot support will not be available.

Field Name	Ipv6 PXE Support (Available when Network stack Enabled)
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable Ipv6 PXE Boot Support. If disabled IPV6 PXE boot support will not be available.

3.4.13 NVMe Configuration



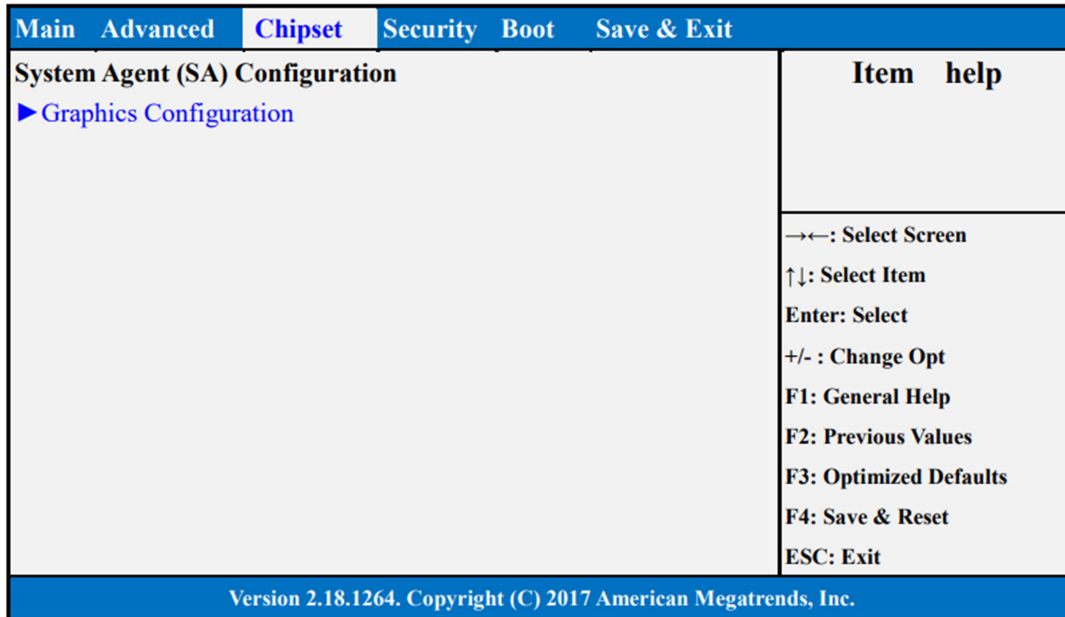
3.5 Chipset Page



Field Name	System Agent (SA) Configuration
Help	System Agent (SA) Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

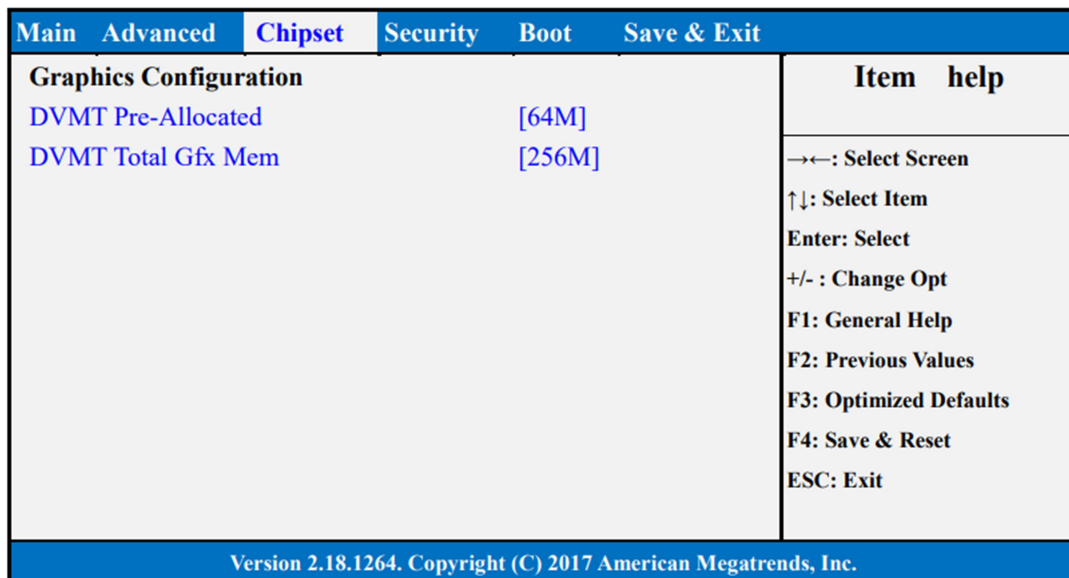
Field Name	PCH-IO Configuration
Help	PCH Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.5.1 System Agent (SA) Configuration



Field Name	Graphics Configuration
Help	Graphics Configuration
Comment	Press Enter when selected to go into the associated Sub-Menu

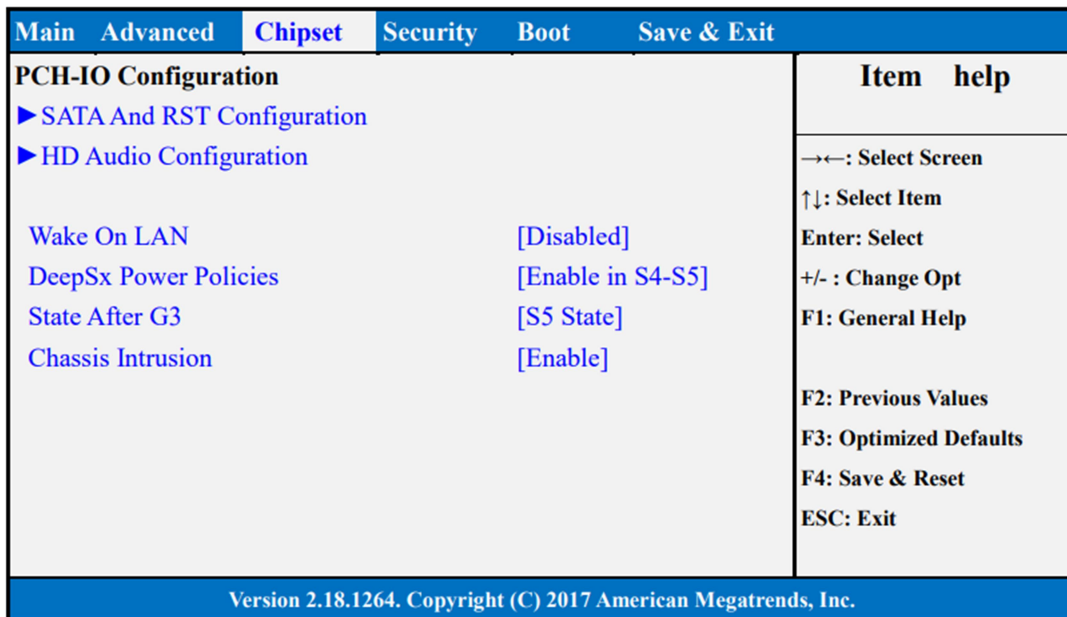
3.5.2 Graphics Configuration



Field Name	DVMT Pre-Allocated
Default Value	[64M]
Possible Value	64M /32M/F7/ 36M/ 40M/ 44M/ 48M/ 52M/ 56M/ 60M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by

	the Internal Graphics Device.
--	-------------------------------

3.5.3 PCH-IO Configuration



Field Name	SATA And RST Configuration
Help	SATA Device Options Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	HD Audio Configuration
Help	HD Audio Subsystem Configuration Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	DeepSx Power Policies
Help	[Enabled in S4-S5]
Comment	Enabled in S4-S5 Disabled
Help	configure the DeepSx Mode configuration.

Field Name	Wake On LAN
Help	[Disabled]
Comment	Enabled Disabled
Help	configure the DeepSx Mode configuration.

Field Name	State After G3
Help	[S5 State]
Comment	S0 State S5 State
Help	Specify what state to go to when power is re-applied after a power failure (G3 state).

Field Name	Chassis Intrusion
Help	[Enabled]
Comment	Enabled Disabled Reset
Help	Configure Chassis Intrusion

3.5.4 SATA And RST Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
SATA And RST Configuration					Item help
SATA Mode Selection [AHCI]					→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	SATA Mode Selection
Help	[AHCI]
Comment	AHCI / Intel RST Premium With Intel Optane System Acceleration
Help	Determines how SATA controller(s) operate.

3.6 Security Page

Main	Advanced	Chipset	Security	Boot	Save & Exit
Password Description If Only the 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 length must be in the following range: Minimum length 3 Maximum length 20 Administrator Password User Password HDD Security Configuration: HDD Security drive ▶ Secure Boot ▶ BIOS Update					Item help →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Administrator Password
Help	Set Administrator Password

Field Name	User Password
Help	Set User Password.

Field Name	HDD Security drive
Help	HDD Security Configuration for selected drive
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Boot
Help	Set User Password.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	BIOS Update
------------	-------------

Help	BIOS Update support
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.6.1 HDD Security

Main	Advanced	Chipset	Security	Boot	Save & Exit
HDD Password Description : Allows Access to Set, Modify and Clear Hard Disk User Password And Master Password. User Password is mandatory to Enable HDD security. If Master password is installed (optional), It can also be used to unlock the HDD. If the 'Set User Password' option is hidden, do power cycle to enable the option again. HDD PASSWORD CONFIGURATION:					Item help
Security Supported : Yes Security Enabled : No Security Locked : No Security Frozen : No HDD User Pwd Status : NOT INSTALLED Set User Password					→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Set User Password
Help	Set HDD User Password. *** Advisable to Power Cycle System after Setting Hard Disk Passwords ***. Discard or Save changes option in setup does not have any impact on HDD when password is set or removed. If the 'Set HDD User Password' option is hidden, do power cycle to enable the option again

3.6.2 Secure Boot

Main	Advanced	Chipset	Security	Boot	Save & Exit
System Mode				Setup	Item help
Secure Boot				[Disabled] Not Active	→←: Select Screen ↑↓: Select Item Enter: Select
Secure Boot Mode				[Custom]	+/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
<ul style="list-style-type: none"> ▶ Restore Factory Keys ▶ Reset To Setup Mode ▶ Key Management 					
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Field Name	Secure Boot
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Secure Boot feature is Active if Secure Boot is Enabled, Platform Key(PK) is enrolled and the System is in User mode. The mode change requires platform reset

Field Name	Secure Boot Mode
Default Value	[Standard]
Possible Value	Standard Custom
Help	Secure Boot mode options: Standard or Custom. In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication

Field Name	Key Management
Help	Enables expert users to modify Secure Boot Policy variables without full authentication
Comment	Enables expert users to modify Secure Boot Policy variables without full authentication

Field Name	Restore Factory Keys
Help	Force System to User Mode. Install factory default Secure Boot key databases

3.6.3 Key Management(Secure Boot Mode set to Custom)

Main	Advanced	Chipset	Security	Boot	Save & Exit		
Vendor Key				Valid	Item help		
Factory Key Provision				[Disabled]			
▶ Restore Factory Keys					→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit		
▶ Reset To Setup Mode							
▶ Export Secure Boot variables							
▶ Enroll Efi Image							
Device Guard ready							
▶ Remove 'UEFI CA' from DB							
▶ Restore DB defaults							
Secure Boot variable				Size		Key	Key Source
▶ Platform Key(PK)				0		0	No Key
▶ Key Exchange Key				0		0	No Key
▶ Authorized Signatures				0	0	No Key	
▶ Forbidden Signatures				0	0	No Key	
▶ Authorized TimeStamps				0	0	No Key	
▶ OsRecovery Signatures				0	0	No Key	
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Field Name	Factory Key Provision
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Install factory default Secure Boot keys after the platform reset and while the System is in Setup mode

Field Name	Restore Factory Keys
Help	Force System to User Mode. Install factory default Secure Boot key databases

Field Name	Reset to Setup Mode
Help	Delete all Secure Boot key databases from NVRAM

Field Name	Export Secure Boot variables
Help	Copy NVRAM content of Secure Boot variables to files in a root folder on a file system device

Field Name	Enroll Efi Image
Help	Allow the image to run in Secure Boot mode. Enroll SHA256 Hash certificate of a PE image into Authorized Signature Database (db)

Field Name	Remove 'UEFI CA' from DB
Help	Device Guard ready system must not list 'Microsoft UEFI CA' Certificate in Authorized Signature database (db)

Field Name	Restore DB defaults
Help	Restore DB variable to factory defaults

Field Name	Platform Key (PK)
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
Comment	Press Enter when selected to go into the associated Sub-Menu "Key Management".

Field Name	Key Exchange Keys
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
Comment	Press Enter when selected to go into the associated Sub-Menu.

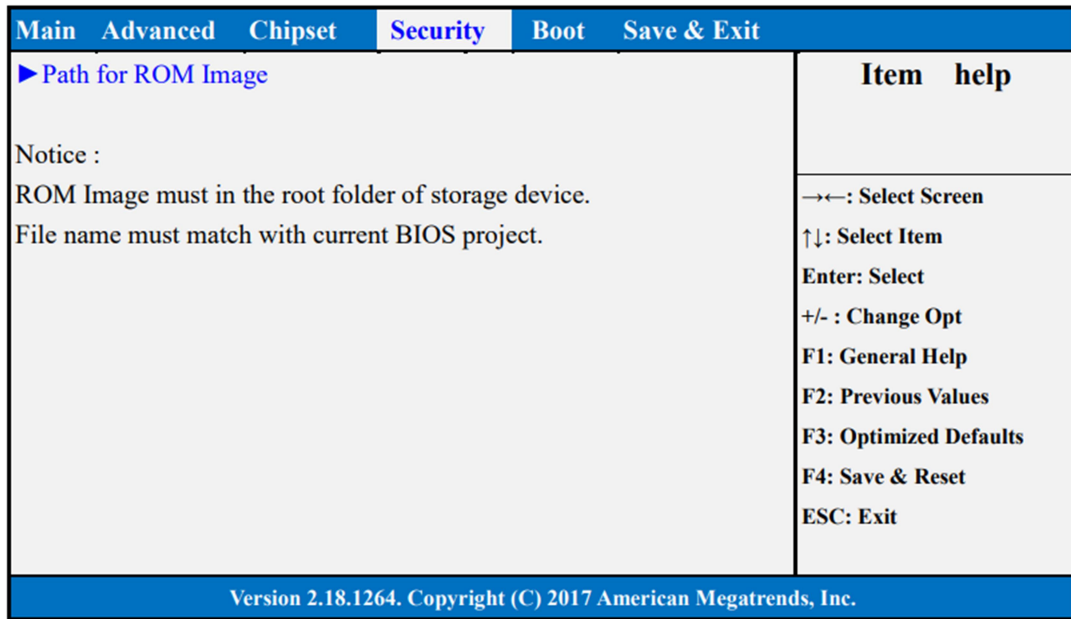
Field Name	Authorized Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Forbidden Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Authorized TimeStamps
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	OsRecovery Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.6.4 BIOS Update



Field Name	Path for ROM Image
Help	Enter the path to the Secure flash option

3.7 Boot Page

Main	Advanced	Chipset	Security	Boot	Save & Exit
Boot Configuration					Item help
Setup Prompt Timeout				1	
Bootup NumLock State				[On]	
FIXED BOOT ORDER Priorities					→←: Select Screen
Boot Option #1				[USB Floppy]	↑↓: Select Item
Boot Option #2				[CD/DVD]	Enter: Select
Boot Option #3				[USB CD/DVD]	+/- : Change Opt.
Boot Option #4				[Hard Disk]	F1: General Help
Boot Option #5				[USB Key]	F2: Previous Values
Boot Option #6				[USB Hard Disk]	F3: Optimized Defaults
Boot Option #7				[Network]	F4: Save & Reset
▶ USB Floppy Drive BBS Priorities					ESC: Exit
▶ CDROM/DVD Drive BBS Priorities					
▶ USB CDROM/DVD Drive BBS Priorities					
▶ Hard Disk Drive BBS Priorities					
▶ USB Key Drive BBS Priorities					
▶ USB Hard Disk Drive BBS Priorities					
▶ USB Lan Drive BBS Priorities					
▶ Network Drive BBS Priorities					
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Field Name	Setup Prompt Timeout
Default Value	1
Possible Value	1~65535
Comment	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Field Name	Bootup NumLock State
Default Value	[Off]
Possible Value	On Off
Comment	Select the keyboard NumLock state

Field Name	Boot Option #1
Default Value	[USB Floppy]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	Boot Option #2
Default Value	[USB CD/DVD]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	Boot Option #3
Default Value	[Hard Disk]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	Boot Option #4
Default Value	[USB Key]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	Boot Option #5
Default Value	[USB Hard Disk]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	Boot Option #6
Default Value	[NVME]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	Boot Option #7
Default Value	[Network]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , NVME, Network, Disabled
Comment	Sets the system boot order

Field Name	(UEFI) USB Floppy Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available USB Floppy Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) USB CDROM/DVD ROM Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available USB CDROM/DVD Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

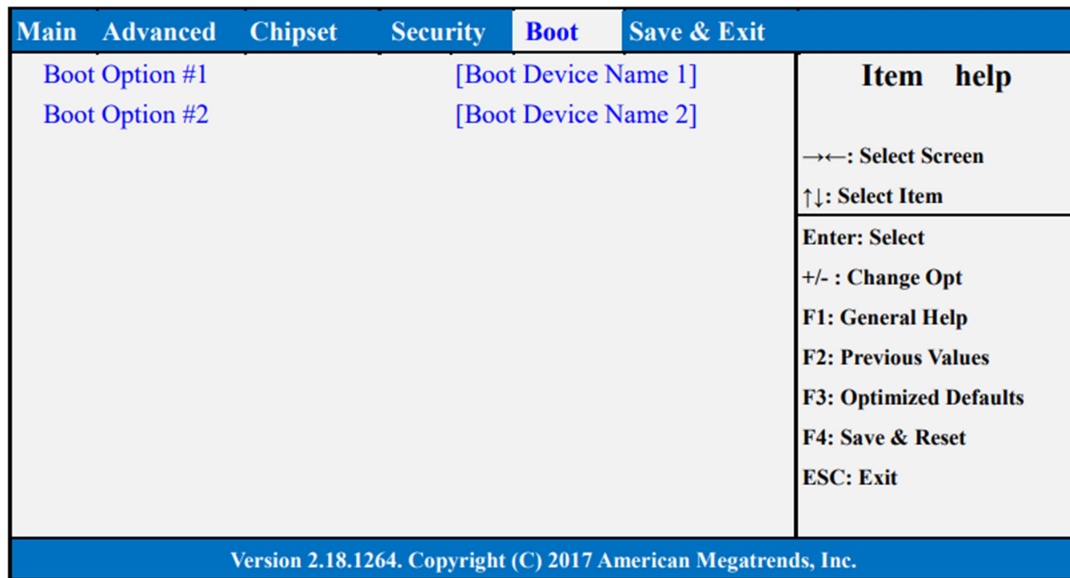
Field Name	(UEFI) Hard Disk Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) USB KEY Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) USB Hard Disk Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	(UEFI) NETWORK Drive BBS Priorities
Help	Specifies the Boot Device Priority sequence from available Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.7.1 (List Boot Device Type) Drive BBS Priorities



Field Name	Boot Option #1
Default Value	
Possible Value	Boot Device Name 1 of this type
Help	Sets the system boot order

Field Name	Boot Option #2
Default Value	

Possible Value	Boot Device Name 2 of this type
Help	Sets the system boot order

3.8 Save & Exit Page

Main	Advanced	Chipset	Security	Boot	Save & Exit	Item	help
Save Options							
Discard Changes and Exit							
Save Changes and Reset							
Discard Changes and Reset							
Restore Defaults							
						→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit	
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Field Name	Discard Changes and Exit
Help	Exit system setup without saving any changes.

Field Name	Save Changes and Reset
Help	Reset the system after saving the changes.

Field Name	Restore Defaults
Help	Restore/Load Default values for all the setup options.

3.9 Recover Page (Active For Secur Flash Update Only)

Main	Advanced	Chipset	Security	Boot	Save & Exit	Recovery
Please select block you want to update						Item help
Reset NVRAM [Disabled]						
▶ Process with flash update						
						→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Reset NVRAM
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Set this option to reset NVRAM to default values

Field Name	Process with flash update
Help	Select this to start flash update