



Intel[®] Q370 Rugged System





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

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- All product specifications are subject to change without prior notice

Revision History

Revision	Date (yyyy/mm/dd)	Changes
V1.0	2019/12/6	Initial release

Packing list

□ 19" 1U Rack-mount Intel[®] Q370 Fanless Rugged System

Accessories

Item	Description	Q'ty
1	Driver CD	1
2	Bracket Ear	2
3	Screw for fixing Bracket Ear M4 L:7.8mm	6



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

Ordering information

Model Number	Description
ROC285A	1U Rackmount Fanless System with Intel [®] Q370, 3 x DisplayPort,
	1 x PClex16 slot, 12/19~28V DC-In, operating Temp -20 to 60°C
ROC286AA	1U Rackmount Fanless System with Intel [®] Q370, 3 x DisplayPort,
	1 x PClex16 slot, 9~36V Redundant DC-In, operating Temp -20 to 60°C

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Chapter 1: Product Introduction

1.1 Key Features

System	
СРИ Туре	Intel [®] 14nm Coffee Lake-S Processor (Desktop) socket (LGA1151)
	Core™ i7-8700T 2.4 GHz (12M Cache, 25W)
	Core™ i5-8500T 2.1 GHz (9M Cache, 25W)
	Core™ i3-8100T 3.1 GHz (6M Cache, 25W)
Chipset	Intel [®] Q370
Memory Type	2 x SO-DIMM DDR4 2133/2400 MHz up to 64 GB
Expansion Slot	1 x Mini PCIe
	1 x M.2 (Key E, 2230)with PCIex1 and USB2.0
	1 x M.2 (Key M, 2242/2260/2280) with PCIex4 and SATA3 for SSD
Storage Device	2 x 2.5" Easy Swap SSD
Front I/O	
Power Button	1 x (with LED indicator)
HDD LED	1
2.5" HDD/SSD Tray	2
USB	2 x USB 2.0
Rear I/O	
СОМ	1 x RS232
DisplayPort	3 x DisplayPort (Max resolution up to 4096x2304@60Hz)
Ethernet	2 x RJ45
USB	4 x USB 3.0
Audio	Mic-in, Line-out
DC-in	1 x 4P Terminal Block
Mechanical & Environmen	t
Power	ROC285A: DC-In 12/19~28V
Requirements	ROC286AA: DC-in 9~36V w/Redundant
Dimension	430 x 44.4 x 450mm
(W x H x D)	(16.9" x 1.75" x 17.71")
Operating Temp.	-20 to 60°C
(ambient with air flow)	Note: w/o any PCIe add-on card
Storage Temp.	-20 to 70°C
Relative Humidity	5% to 95%, non-condensing
Compliance	CE, FCC

Specifications are subject to change without notice

1.2 Front Panel Components



1.3 Rear Panel Components

000	****** *******************************		1 0 0			• • • • • • • • • • • • • • • • • • •		0 0 0
	1	2	3	45	6	7	8	
1	COM1: R	S232						
2	USB 3.1 x	٢4						
3	DisplayPo	ort x 3						
4	LAN1 (Int	tel® 210))					
5	LAN2 (Int	tel® 219	LM)					
6	Audio jac	ck (Mic-ir	, Line-o	out)				
7	PClex16	Expansio	n Slot					
8	DC-In, 4P	• Termina	l block					

1.4 Mechanical Dimensions



Chapter 2: Jumpers and Connectors

2.1 Connector & LED Pin Definitions LAN1 and LAN2 LED

LAN Port LED Indications

ACT/LINK SPEED



SPEED LED			
Status	Description		
Off	10Mbps connection		
Yellow	100Mbps connection		
Green	1Gbps connection		



LAN Port

AUDIO: LINE-OUT/MIC-IN

Pin	Definition	
1	Line-out	Line-out
2	Mic-in	Mic-in

COM1: RS232

Pin	RS-232	
1	DCD-	
2	RXD	
3	TXD	1 5
4	DTR-	
5	GND	◙▮°°°°°°∦⊘
6	DSR-	
7	RTS-	
8	CTS-	
9	PWR (5V)	

DC-In:

Pin	DC-In	++
1	V-In +	\bigcirc
2	V-In +	
3	GND	
4	GND	

Note:

ROC285A: System input voltage +12V or +19~28V

ROC286AA: System input voltage +9 ~36V

Chapter 3: Getting Started

This chapter provides more detailed information and let you know how to install components into the ROC285A series embedded System.



Prior to removing the chassis cover, make sure the unit's power is off and disconnected from the power sources to prevent electric shock or system damage.

3.1 2.5" Easy Swap SSD installation

ROC285A series supports two 2.5" Easy Swap SSD

- Use Tri-angle security key to open keylock and pull out the 2.5" HDD tray.
- Put 2.5" SSD/HDD on the tray and make sure SSD/HDD is fixed and push the tray back.
- Use Tri-angle security key to lock the tray door.



Chapter 4: 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.

4.1 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.

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. 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.</arrow>
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.</tab>
F1	The <f1> key displays the General Help screen.</f1>
F10	The <f10> key saves any changes made and exits the BIOS setup</f10>
	utility.
Esc	The <esc> key discards any changes made and exits the BIOS setup</esc>
	utility.
Enter	The <enter> key displays a sub-screen or changes a selected or</enter>
	highlighted option in each menu.

4.3 Main

The Main menu is the first screen that you will see when you enter the BIOS Setup Utility.

BIOS Information		Set the Date. Use Tab
BIOS Vendor	American Megatrends	to switch between Date
Core Version	5.11	elements.
Compliancy	UEFI 2.4; PI 1.3	
Project Version	18349202	
Build Date and Time	06/16/2016 12:43:43	
Memory Information		
Total Memory	32768 MB	
		→+: Select Screen
System Date	[Thu 01/14/2016]	↑↓ : Select Item
System Time	[23:01:58]	Enter: Select
		+/-: Change Opt.
Access Level	Administrator	F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit

System Date

Use this function to change the system date.

Select System Date using the Up and Down <Arrow> keys. Enter the new values through the keyboard. Press the Left and Right <Arrow> keys to move between fields. The date setting must be entered in MM/DD/YY format.

System Time

Use this function to change the system time.

Select System Time using the Up and Down <Arrow> keys. Enter the new values through the keyboard. Press the Left and Right <Arrow> keys to move between fields.

The time setting is entered in HH:MM:SS format.

Note: The time is in 24-hour format. For example, 5:30 A.M. appears as 05:30:00, and 5:30 P.M. as 17:30:00.

Access Level

Display the access level of the current user in the BIOS.

4.4 Advanced

The Advanced Menu allows you to configure your system for basic operation. Some entries are defaults required by the system board, while others, if enabled, will improve the performance of your system or let you set some features according to your preference. Setting incorrect field values may cause the system to malfunction.



4 4 1 Trusted Computing

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Aptio Setup Utility Advanced	– Copyright (C) 2016	6 American Megatrends, Inc.
Configuration Security Device Sup NO Security Device	[Enable]	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. ++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1255.	Copyright (C) 2016 A	American Megatrends, Inc.

4.4.2 CPU Configuration

Aptio Setup Utility Advanced	y – Copyright (C) 2016 Amer	rican Megatrends, Inc.
CPU Configuration		Enabled for Windows XP
		and Linux (OS optimized
Intel(R) Core(TM) i3–6:	LOOTE CPU @ 2.70GHz	for Hyper–Threading
CPU Signature	506E3	Technology) and
Microcode Patch	70	Disabled for other OS
Max CPU Speed	2700 MHz	(OS not optimized for
Min CPU Speed	800 MHz	Hyper-Threading
CPU Speed	2700 MHz	Technology). When
Processor Cores	2	Disabled only one
Hyper Threading Tech	Supported	
Intel VT–x Technology	Supported	→+: Select Screen
Intel SMX Technology	Not Supported	↑↓: Select Item
64-bit	Supported	Enter: Select
EIST Technology	Supported	+/-: Change Opt.
CPU C3 state	Supported	F1: General Help
CPU C6 state	Supported	F2: Previous Values
CPU C7 state	Supported	F3: Optimized Defaults
CPU C8 state	Supported	F4: Save & Exit
CPU C9 state	Not Supported	ESC: Exit
Version 2.17.1255.	. Copyright (C) 2016 Americ	can Megatrends, Inc.
		AB

Aptio Setup Utility Advanced	– Copyright (C) 2016 Americ	can Megatrends, Inc.
CPU C10 state	Not Supported	Enabled for Windows XP and Linux (OS optimized
L1 Data Cache	32 kB x 2	for Hyper-Threading
L1 Code Cache	32 KB X 2	Technology) and
L2 Cache	256 kB x 2	Disabled for other OS
L3 Cache	4 MB	(OS not optimized for
L4 Cache	Not Present	Hyper-Threading
		Technology). When
Hyper-threading	[Enabled]	Disabled only one
Active Processor Core	[A11]	
Intel Virtualization	[Enabled]	↔+: Select Screen
Hardware Prefetcher	[Enabled]	†↓: Select Item
Adjacent Cache Line P	[Enabled]	Enter: Select
CPU AES	[Enabled]	+/−: Change Opt.
Boot performance mode	[Max Non–Turbo Perfo]	F1: General Help
Intel(R) Speed Shift	[Enabled]	F2: Previous Values
Intel(R) SpeedStep(tm	[Enabled]	F3: Optimized Defaults
CPU C states	[Enabled]	F4: Save & Exit
Enhanced C-states	[Enabled]	ESC: Exit
Version 2 17 1255	Conunight (C) 2016 American	Megatrends Inc

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4.4.3 ACPI Setting



4.4.4 Smart Setting

Aptio Setup Util Advanced	ity – Copyright (C.) 2016 American Megatrends, Inc.
SMART Settings		Run SMART Self Test on
SMART Self Test	[Disabled]	
		<pre>→+: Select Screen ↑↓: Select Item</pre>
		Enter: Select +/-: Change Opt.
		F1: General Help F2: Previous Values F3: Optimized Defaults
		F4: Save & Exit ESC: Exit
Version 2.17.12	55. Copyright (C)	2016 American Megatrends, Inc.

4.4.5 F81866 Super IO Configuration



Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Advanced Serial Port 1 Configuration Enable or Disable Serial Port (COM) IO=3F8h; IRQ=4; Device Settings Change Settings [Auto] ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit Version 2.17.1255. Copyright (C) 2016 American Megatrends, Inc.

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4.4.6 Hardware Monitor

Aptio Setup Utility Advanced	y – Copyright (C) 2016 Ameri	can Megatrends, Inc.
Pc Health Status		Enable or Disable Smart Fan
Smart Fan Function Smart Fan Mode Configur CPU temperature System temperature CPU Fan Speed System Fan Speed CPU VCore +5V +3.3V +12V VBAT	[Enabled] ration : +31°C : +35°C : 1330 RPM : N/A : +1.008 V : +5.129 V : +3.363 V : +11.880 V : +3.168 V	<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1255.	. Copyright (C) 2016 America	n Megatrends, Inc. AB

4.4.6.1 Smart Fan Mode Configuration

Aptio Setup Utilit Advanced	y – Copyright (C) 2016 Amer	ican Megatrends, Inc.
CPU Fan Control Temperature 1 Temperature 2 Temperature 3 Temperature 4 Duty Cycle 1 Duty Cycle 2 Duty Cycle 3 Duty Cycle 4	[Auto Duty-Cycle Mode] 70 60 50 40 85 70 60 51	▲ Smart Fan Mode Select
System Fan Control Temperature 1 Temperature 2 Temperature 3 Temperature 4 Duty Cycle 1 Duty Cycle 2 Duty Cycle 3 Duty Cycle 4	[Auto Duty-Cycle Mode] 70 60 50 40 85 70 60 51	<pre>→+: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1255	. Copyright (C) 2016 Americ	an Megatrends, Inc.

4.4.7 Platform Function

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Advanced		
Unteh Der Einstien		Ustab dag Mada (Record
Watch Dog Function	[01	watch dog Mode (Second
Watch dog Mode	[Sec]	/ MINULE)
watch dog rimer	U	
watch dog count	NZH	
COM2 Eurotion		
COM2 nont mode	[85232]	
Slew rate control	[250Kbps]	
Sico rate control	[230(0)3]	
Mini PCIE Function		
Slot1 Wifi	[Enabled]	→+: Select Screen
		↑↓: Select Item
LVDS Function		Enter: Select
LVDS Function	[Disabled]	+/-: Change Opt.
		F1: General Help
전 날씨가 많은 것이 많은 것이 같아요.		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
방법 중심의 것을 잘 다 들었다. 가지 않는		ESC: Exit
Version 2.17.1255.	Copyright (C) 2016 America	n Megatrends, Inc.





4.4.8 Serial Consolr Redirection

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Advanced		
COMO Console Redirection [Enabled] ▶ Console Redirection Settings	Console Redirection Enable or Disable.	
	<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>	
Version 2.17.1255. Copyright (C) 2016 America	n Megatrends, Inc. AB	

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Advanced

СОМО		Emulation: ANSI:
Console Redirection Set	tings	Extended ASCII char
		set. VT100: ASCII char
Terminal Type	[VT100+]	set. VT100+: Extends
Bits per second	[115200]	VT100 to support color,
Data Bits	[8]	function keys, etc.
Parity	[None]	VT-UTF8: Uses UTF8
Stop Bits	[1]	encoding to map Unicode
Flow Control	[None]	chars onto 1 or more
VT-UTF8 Combo Key Sup	[Enabled]	
Recorder Mode	[Disabled]	↔+: Select Screen
Resolution 100x31	[Disabled]	↑↓: Select Item
Legacy OS Redirection	[80×24]	Enter: Select
Putty KeyPad	[VT100]	+/-: Change Opt.
Redirection After BIO	[Always Enable]	F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
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4.4.9 NVMe Configuration



4.4.10 USB Configuration



4.4.11 CSM Configuration

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Advanced		
Compatibility Support	Module Configuration	UPON REQUEST - GA20 can
CSM Support	[Enabled]	services. ALWAYS – do not allow disabling
CSM16 Module Version	07.79	GA20; this option is useful when any RT code
GateA20 Active Option ROM Messages	[Upon Request] [Force BIOS]	is executed above 1MB.
INT19 Trap Response	[Immediate]	
Boot option filter	[UEFI and Legacy]	↔: Select Screen †↓: Select Item
Option ROM execution		Enter: Select +∕–: Change Opt.
Network	[Do not launch]	F1: General Help
Storage	[Legacy]	F2: Previous Values
Video	[Legacy]	F3: Optimized Defaults
Other PCI devices	(UEFI)	F4: Save & Exit ESC: Exit
Version 2.17.1255	. Copyright (C) 2016 America	n Megatrends, Inc. AB

4.4.12 SATA Configuration

Aptio Setup Utility Advanced	– Copyright (C) 2016 Ameri	can Megatrends, Inc.
SATA Controller(s) SATA Mode Selection ▶ Software Feature Mask C Aggressive LPM Suppor	[Enabled] [AHCI] onfiguration [Enabled]	Enable or disable SATA Device.
Serial ATA Port O Software Preserve Port O Spin Up Device SATA Device Type	Empty Unknown [Enabled] [Disabled] [Hard Disk Drive]	
Serial ATA Port 1 Software Preserve Port 1	Empty Unknown [Enabled]	↔+: Select Screen ↑↓: Select Item Enter: Select
Spin Up Device SATA Device Type Serial ATA Port 2	[Disabled] [Hard Disk Drive] Empty	+/-: Change Opt. F1: General Help F2: Previous Values
Port 2 Spin Up Device	[Enabled] [Disabled]	F4: Save & Exit ESC: Exit
Version 2.17.1255.	Copyright (C) 2016 America	n Megatrends, Inc. ABI

4.5 Chipset Menu

Aptio Setup Utility – Copyright (C) 2016 Americ Main Advanced <mark>Chipset</mark> Security Boot Save & Ex	can Megatrends, Inc. ≪it
► System Agent (SA) Configuration ► PCH-IO Configuration	System Agent (SA) Parameters →+: Select Screen ↓: Select Item Enter: Select +/-: Change Opt.
	F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1255. Copyright (C) 2016 Americar	n Megatrends, Inc.

4.5.1 System Agent (SA) Configuration

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Chipset			
System Agent Bridge N SA PCIe Code Version VT-d • Graphics Configuration • PEG Port Configuration • GT - Power Management C	Skylake 1.9.0.0 Supported [Enabled] ontrol		VT-d capability
			<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1255.	Copyright (C	:) 2016 Amer	ican Megatrends, Inc. AB

4.5.1.1 Graphics Configuration

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Chipset		
Graphics Configuration		If Enable, it will not scan for External Gfx
IGFX VBIOS Version	1036	Card on PEG and PCH PCIE Ports
Skip Scaning of Exter Primary Display Internal Graphics GTT Size Aperture Size DVMT Pre-Allocated DVMT Total Gfx Mem PAVP Enable	[Disabled] [Auto] [Enabled] [8MB] [256MB] [32M] [256M] [Enabled]	<pre>→+: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1255.	Copyright (C) 2016 Americ	an Megatrends, Inc. AB

4.5.1.2 PEG Port Configuration



4.5.1.3 GT-Power Management Control



4.5.2 PCH-IO Configuration



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4.5.2.1 PCI Express Configuration

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Chipset		
PCI Express Configuration	Enable or disable PCI Express Clock Bating	
PCI Express Clock Gat [Enabled] DMI Link ASPM Control [Enabled]	for each root port.	
 PCI Express Root Port 5 PCI Express Root Port 6 PCI Express Root Port 7 PCI Express Root Port 17 		
	<pre> ++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>	
Version 2.17.1255. Copyright (C) 2016 Americar	n Megatrends, Inc.	

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4.5.2.2 USB configuration

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Chipset		
USB Configuration		Options to disable
USB Precondition	[Disabled]	Default is FALSE to not disable Compliance
XHCI Disable Complian	[FALSE]	Mode. Set TRUE to disable Compliance Mode.
USB Port Disable Over [Disabled] XHCI Disable Compliance Mode FALSE TRUE ect Screen ect Item		
		Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1255. Copyright (C) 2016 American Megatrends, Inc.		

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Chipset		
USB Configuration		Selectively
USB Precondition	[Disabled]	corresponding USB port
XHCI Disable Complian	[FALSE]	Connection to the controller.
	- USB Port Disable Override sabled elect Per-Pin	lect Screen lect Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
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4.5.2.3 HD Audio Configuration



4.6 Security Menu

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Main Advanced Chipset <mark>Security</mark> Boot Save & Exit		
Password Description		Set Administrator Password
If ONLY the Administr	ator's password is set,	
then this only limits	access to Setup and is	
If ONLY the User's pa	ssword is set, then this	
is a power on passwor	d and must be entered to	요즘 아직 같은 것이 같은 것이 같다.
boot or enter Setup.	In Setup the User will	
The password length a	gnts. Wst be	옷이 살았던 것들은 나무 있다. 날카고 수가 없는 것
in the following rang	e:	→+: Select Screen
Minimum length	3	↑↓ : Select Item
Maximum length	20	Enter: Select
		+/-: Change Opt.
Administrator Passuor	d	F1: General Help F2: Previous Values
User Password		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
Version 2.17.125	5. Copyright (C) 2016 Ameri	can Megatrends, Inc.

Use the Security Menu to establish system passwords

Administrator Password

Set administrator password.

User Password

Set user Password.

4.7 Boot Menu

This section is used to configure the boot features.

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Main Advanced Chipset Security <mark>Boot</mark> Save & Exit		
Setup Prompt Timeout 1 Bootup NumLock State [On] Quiet Boot [Disabled] Boot Option Priorities	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.	
	<pre> ++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>	
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Setup Prompt Timeout

Number of seconds to wait for setup activation key. 65535 (0xFFFF) means indefinite waiting.

Bootup NumLock State

Select the keyboard NumLock state

Quiet Boot

Enables or disables quiet boot option

4.8 Save & Exit

This screen provides functions for handling changes made to the BIOS settings and the exiting of the Setup program.



Save Changes and Exit

Exit system setup after saving the changes

Discard Changes and Exit

Exit system setup without saving changes

Restore Defaults

Restore/Load default values for all the setup options