

Quick Installation Guide

Introduction

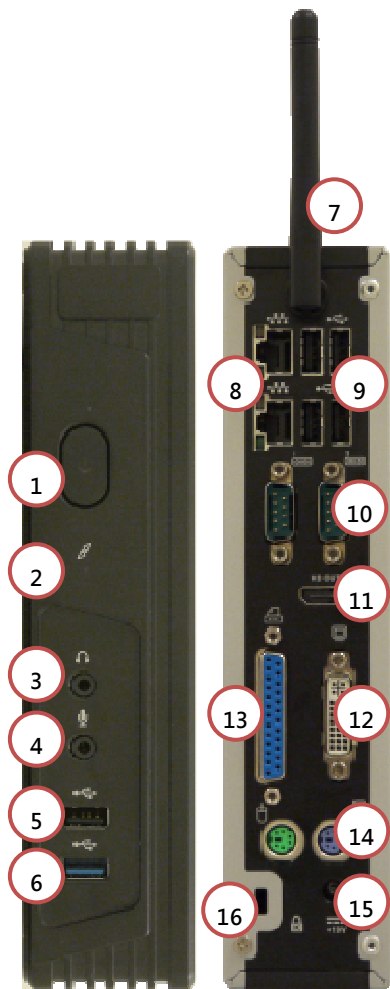
Pluto E220 is built around the latest generation of Intel's Baytrail. Baytrail has been improved 3D graphics performance with up to 5x more power and 2x greater CPU performance over previous generation. The whole new SOC structure packs more powerful capability for your tasks or applications.

E220 Specification

Item	Spec	Optional
Processor	Intel Bay Trail Desktop J1900	J1800,
Chipset	SoC	
OS support	Linux, Win 7, Win 8, Android	
PCB	Mini-ITX proprietary, 4 layer, 182mm x 185mm	
Memory	DDR3L 1333/1600(runs at 1333 MHz) SO-DIMMs, (2 x So-DIMM slot, up to 8GB)	
LAN	Realtek RTL8111E GLAN x2	Single LAN
Audio	Realtek ALC-662	
Storage	SATA DOM or 2.5" SATA HDD/SSD or mSATA	
Mini Card	1 Full-length for mSATA One-sided screw 1 Half-length for wireless module	
WLAN Support	For 802.11 b, g, n	Wireless Card Antenna
Display interface	1 x DVI-I, 1 x HD Out	
SPI Flash	16Mb	
Front I/O	1 x USB3.0, 1 x USB2.0, MIC-in, Headphone-out, power button	
Rear I/O	2 x PS/2, 4 x USB2.0 ,1 x Ethernet RJ45, 1 x DVI-I,1 x HD out, 2 x Serial Port,1 x DC jack, 1 x Kensington lock	Parallel Port can be removed
Internal speaker	1 x Buzzer As default	Speaker is the option
Power supply	65W, 19V, Power Adapter	

Environment	Fanless System Temp: 10 Degree C~ 35 Degree C Humidity: 20%~85% Non-Condensing MB Temp: 0~60 Degree C
VESA Mount	Yes (100mmx100mm)
VESA Bracket	Support 75x75 and 100x100 VESA standard
Stand	For vertical use



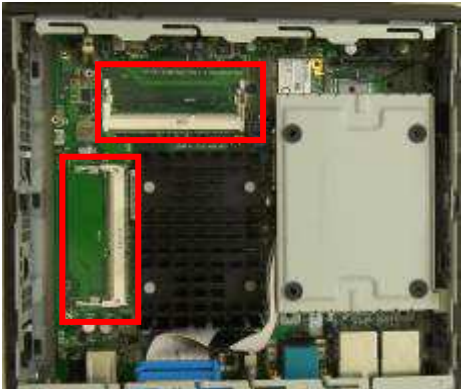
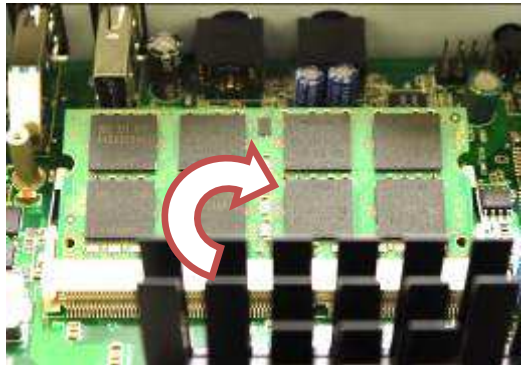
Interface



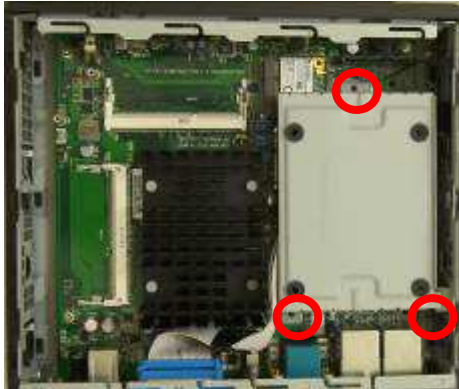
1	Power Button
2	LED Indicator
3	Earphone Jack
4	Microphone Jack
5	USB 2.0 Port
6	USB 3.0 Port
7	WiFi Antenna(Optional)
8	RJ45 (2 nd is optional)

9	USB 2.0
10	Serial Ports
11	HD Out
12	DVI-I
13	Parallel Ports(Optional)
14	PS/2
15	DC-in
16	For Kensington Lock

Installation

	Unscrew the side cover
	Pull back to uncover
RAM Installation	
	The RAM sockets are near to CPU heatsink
	Install the RAM and push to click

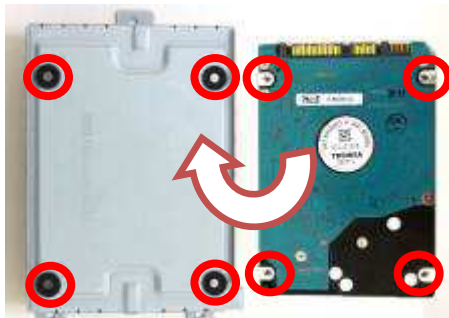
HDD/SDD Installation



Use the HDD bracket for the HDD installation.

Unscrew to detach the bracket

If you want to install the SATA DOM, just remove the bracket and install the DOM to the SATA connector.



Align the screw holes for HDD and bracket



Fix the HDD with screws on the back side of the bracket



Finish the HDD bracket assembly



Connect the HDD SATA cable



Connect the other side of the cable to the MB

E220 BIOS Setup Specification



Rev: R0.03

1. Date: 11/05/2013 Main Page

Main		Advanced	Device	Chipset	Security	Boot	Save & Exit
BIOS Information							Item help
BIOS Vender	American Megatrends						
Core Version	5.012						
Compliancy	UEFI 2.3; PI 1.2						
BIOS Version	D7300X09						
Build Date and Time	10/09/2013						
	19:02:20						
Processor Information							
Intel(R) Celeron(R) CPU J1750 @ 2.41GHz							
Microcode Revision	216						
System Language	[English]						
System Date	[Mon mm/dd/yyyy]						
System Time	[hh: mm:ss]						
Lan0 MAC Address	XX-XX-XX-XX-XX-XX						
Lan1 MAC Address	XX-XX-XX-XX-XX-XX						
Access Level	Administrator						
→←: 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	BIOS Vender
Default Value	AMI Megatrends
Comment	This field is not selectable. There is no help text associated with it

Field Name	Core Version
Default Value	5.008
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Complacency
Default Value	UEFI 2.3; PI 1.2
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 and time of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

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

Field Name	Microcode Revision
Value	Display processor micro-code revision.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	System Date
Default Value	[xxx, mm dd yyyy]
Possible Value	[xxx, xx:xx:xxxx]
Help	Set the Date. Use Tab to switch between Date elements.

Field Name	System Time
Default Value	[hh :mm :ss]
Possible Value	[xx :xx :xx]
Help	Set the Time. Use Tab to switch between Time elements.

Field Name	LAN0 MAC Address
Value	Display Lan0 MAC address
Comment	This field is not selectable. There is no help text associated with i

Field Name	LAN1 MAC Address
Value	Display Lan1 MAC address
Comment	This field is not selectable. There is no help text associated with i

Field Name	Access Level
Value	Display Access Level info.
Comment	This field is not selectable. There is no help text associated with i

2. Advanced Page

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
<ul style="list-style-type: none"> ▶ SMART Settings ▶ Super IO Configuration <ul style="list-style-type: none"> Intel(R) Smart Connect Technology ▶ S5 RTC Wake Settings ▶ Processor Information ▶ PPM Configuration ▶ SATA Configuration ▶ Network Stack Configuration ▶ CSM Configuration <h3>USB Configuration</h3> <ul style="list-style-type: none"> ▶ Security 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>
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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.
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Field Name	Intel(R) Smart Connect Technology
Help	Intel (R) Smart Connect Technology Settings
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	Processor Information
Help	Processor Information Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	SATA Configuration
Help	IDE Devices Configuration
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	CSM Configuration
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Help	CSM configuration: Enable/Disable, Option ROM execution settings, etc.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	Security Configuration
Help	Intel(R) Anti-Theft Technology Configuration.
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.1 SMART Settings

Main	Advanced	Device	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 Settings
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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.

2.2 Super IO Configuration

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Super IO Configuration						Item help
Super IO Chip			W83627DHG			
Serial Port 1 Configuration						
Serial Port			[Enabled]			
Device Settings			IO=xxx			→←: Select Screen
Serial Port 2 Configuration						↑↓: Select Item
Serial Port			[Enabled]			Enter: Select
Device Settings			IO=xxx			+/- : Change Opt
Parallel Port Configuration						F1: General Help
Parallel Port			[Enabled]			F2: Previous Values
Device Settings			IO=xxx			F3: Optimized Defaults
Device Mode			[STD Printer Mode]			F4: Save & Reset
						ESC: Exit
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Field Name	Super IO Chip
Value	Display Super IO Chip name
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Serial Port 1 Configuration
Value	Display Serial Port 1 Configuration
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Serial Port (COM)

Field Name	Device Settings
Value	Display Serial Port 1 Configuration
Comment	This field is not selectable. There is no help text associated with it.

2.3 Intel(R) Smart Connect Technology

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
ISCT Support						[Disabled]
						<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>
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Field Name	ISCT Support
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enable/Disable ISCT Support

2.4 S5 RTC Wake Setting

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Wake system from S5						[Disabled]
						<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>
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Field Name	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled Fixed Time Dynamic Time
Help	Enabler or disable System wake on alarm event, Select FixedTime, system will wake on the hr::min::sec specified. Select DynamicTime , system will wake on the current time + Increase minute (s)

2.5 Processor Information

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Processor Information						Item help
Intel(R) Celeron(R) CPU J1750 @ 2.41GHz						
CPU Signature				30672		
Microcode Patch				216		
Max CPU Speed				2410 MHz		
Min CPU Speed				500 MHz		
Processor Cores				2		
Intel HT Technology				Not Supported		
Intel VT-x Technology				Supported		
L1 Data Cache				24 KB x 2		
L1 Code Cache				32 KB x 2		
L2 Cache				1024 KB x 1		
L3 Cache				Not Present		
CPU Speed				2418 MHz		
64-bit				Supported		
Active Processor Cores				[All]		
Execute Disable Bit				[Enabled]		
Intel Virtualization Technology				[Enabled]		
						→←: 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	Processor Information
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Field Name	CPU Signature
Default Value	Displays CPU Signature
Comment	This field is not selectable. There is no help text associated with i

Field Name	Microcode Patch
Default Value	CPU Microcode Patch Revision
Comment	This field is not selectable. There is no help text associated with it.

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

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

Field Name	Processor Cores
Default Value	Displays number of cores.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Intel HT Technology
Default Value	When Hyper-threading is enabled, 2 logical CPUs per core is present.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Intel VT-x Technology
Default Value	CPU VMX hardware support for virtual machines.
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 Code Cache
Default Value	L1 Code 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	CPU Speed
Default Value	Displays the CPU Speed
Comment	This field is not selectable. There is no help text associated with it

Field Name	64-bit
Default Value	Displays if 64-bit supported
Comment	This field is not selectable. There is no help text associated with it

Field Name	Active Processor Cores
Default Value	[All]
Possible Value	All 1
Help	Number of cores to enable in each processor package.

Field Name	Execute Disable Bit
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	XD can prevent certain classes of malicious buffer overflow attacks when combined with a supporting OS (Windows Server 2003 SP1, Windows XP SP2, SuSE Linux 9.2, RedHat Enterprise 3 Update 3.)

Field Name	Intel Virtualization Technology
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.

2.6 PPM Configuration

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
PPM Configuration						Item help
EIST						[Enabled]
CPU C state Report						[Enabled]
Enhanced C state						[Enabled]
Max CPU C-state						[C7]
						→←: 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	PPM Configuration
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Field Name	EIST
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Intel SpeedStep.

Field Name	CPU C state Report
Default Value	[Enabled]
Possible Value	Disabled / Enabled

Help	Enable/Disable CPU C state report to OS.
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Field Name	Enhanced C state
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Enhanced CPU C state

Field Name	Max CPU C-state
Default Value	[C7]
Possible Value	C7 / C6
Help	This option control Max C state that the processor will support

2.7 SATA Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
SATA Configuration					Item help
Serial-ATA (SATA)					[Enabled]
SATA mode					[AHCI Mode]
Serial-ATA Port 0					[Enabled]
Serial-ATA Port 1					[Enabled]
SATA Port0					→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Not Present					
SATA Port1					
INTEL SSDSC2BW (120.0GB)					
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Field Name	Serial-ATA (SATA)
Default Value	[Enabled]
Possible Value	Enabled / Disable
Help	Enable / Disable Serial ATA

Field Name	SATA Mode
Default Value	[AHCI Mode]
Possible Value	IDE Mode / AHCI Mode
Help	Select IDE / AHCI

Field Name	Serial-ATA Port 0
Default Value	[Enabled]
Possible Value	Enabled / Disable
Help	Enable / Disable Serial ATA Port 0

Field Name	Serial-ATA Port 1
Default Value	[Enabled]
Possible Value	Enabled / Disable
Help	Enable / Disable Serial ATA Port 1

Field Name	Serial ATA Port 0
Default Value	Not Present
Possible Value	SATA Device Model Name

Field Name	Serial ATA Port 1
Default Value	Not Present
Possible Value	SATA Device Model Name

2.8 Network Stack Configuration

Main	Advanced	Device	Chipset	Secur Boot ity	Save & Exit
Network Stack				[Disabled]	Item help
Ipv4 PXE Support				[Enabled]	
Ipv6 PXE Support				[Enabled]	
PXE boot wait time				0	
					→←: 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	Network Stack
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enable/Disable UEFI Network Stack

Field Name	Ipv4 PXE Support
Default Value	[Enabled]
Possible Value	Disabled Enabled

Help	Enable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot option will not be created.
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Field Name	Ipv6 PXE Support
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable Ipv6 PXE Boot Support. If disabled IPV6 PXE boot option will not be created.

Field Name	PXE boot wait time
Default Value	[0]
Possible Value	0~5
Help	Wait time to press ESC key to abort the PXE boot

2.9 CSM Configuration

Main	Advanced	Device	Chipset	Secur Boot ity	Save & Exit
Compatibility Support Module Configuration					Item help
CSM Support				[Disabled]	
CSM Module Version				41.32	
GateA20 Active				[Upon Request]	
Option ROM Message				[Force BIOS]	
INT19 Trap Response				[Immediate]	
Boot option filter				[UEFI and Legacy]	→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Option ROM execution order					
Network				[UEFI only]	
Storage				[UEFI only]	
Video				[UEFI first]	
Other PCI devices				[UEFI first]	
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Field Name	Compatibility Support Module Configuration
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Field Name	CSM Support
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enable / Disable CSM Support.

Field Name	CSM16 Module Version
Default Value	41.32
Comment	This field is not selectable. There is no help text associated with it.

Field Name	GateA20 Active
Default Value	[Upon Request]
Possible Value	Upon Request Always
Help	UPON REQUEST - GA20 can be disabled using BIOS services. ALWAYS - do not allow disabling GA20; this option is useful when any RT code is executed above 1MB..

Field Name	Option ROM Message
Default Value	[Force BIOS]
Possible Value	Force BIOS Keep Current
Help	Set display mode for Option ROM

Field Name	INT19 Trap Response
Default Value	[Immediate]
Possible Value	Immediate Postponed
Help	BIOS reaction on INT19 trapping by Option ROM: IMMEDIATE - execute the trap right away; POSTPONED - execute the trap during legacy boot.

Field Name	Compatibility Support Module Configuration
------------	---

Field Name	Network
Default Value	[UEFI only]
Possible Value	Do not launch UEFI only Legacy only Legacy first UEFI first
Help	Controls the execution of UEFI and Legacy PXE OpROM

Field Name	Storage
Default Value	[UEFI only]
Possible Value	Do not launch UEFI only Legacy only Legacy first UEFI first
Help	Controls the execution of UEFI and Legacy Storage OpROM

Field Name	Video
Default Value	[UEFI first]
Possible Value	Do not launch UEFI only Legacy only Legacy first UEFI first
Help	Controls the execution of UEFI and Legacy Video OpROM

Field Name	Other PCI devices
Default Value	[UEFI first]

Possible Value	Do not launch UEFI only Legacy only Legacy first UEFI first
Help	Determines OpROM execution policy for devices other than Network, Storage, or Video

2.10 USB Configuration

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
USB Configuration USB Devices 8.10.27 USB Devices: 1 Keyboard, 1 Mouse, 2 Hubs Legacy USB Support [Enabled] USB3.0 Support [Enabled] XHCI Hand-off [Enabled] EHCI Hand-off [Disabled] USB Mass Storage Driver Support [Enabled]						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	USB Configuration
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Field Name	USB Module Version
Default Value	USB module version
Comment	This field is not selectable. There is no help text associated with it

Field Name	USB Devices:
Default Value	Connect USB device type

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

Field Name	Legacy USB Support
Default Value	[Enabled]
Possible Value	Disabled Enabled Auto
Help	Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.

Field Name	USB3.0 Support
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable USB3.0 (XHCI) Controller support.

Field Name	XHCI Hand-off
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	This is a workaround for Oses without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.

Field Name	EHCI Hand-off
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	This is a workaround for Oses without EHCI hand-off support. The

	EHCI ownership change should be claimed by EHCI driver.
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Field Name	USB Mass Storage Driver Support
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable USB Mass Storage Driver Support.

2.11 Security Configuration

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Intel(R) TXE Configuration						Item help
TXE						[Enabled]
TXE HMRFP0						[Disabled]
TXE Firmware Update						[Disabled]
TXE EOP Message						[Enabled]
TXE Unconfiguration Perform						
Intel(R) TXE Configuration						
TXE HMRFP0						[Disabled]
TXE HMRFP0						[Enabled]
Intel(R) TXE Configuration						[Disable]
						→←: Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
Version 2.15.1326. Copyright (C) 2012 American Megatrends, Inc.						

Field Name	Intel(R) TXE Configuration
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Field Name	TXE
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	

Field Name	TXE HMRFP0
Default Value	[Disabled]
Possible Value	Disabled Enabled

Help	
------	--

Field Name	TXE Firmware Update
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	

Field Name	TXE EOP Message
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Send EOP Message Befor Enter OS

Field Name	TXE Unconfiguration Perform
Default Value	
Help	Revert TXE settings to factory defaults

Field Name	Intel(R) Anti-Theft Technology Configuration
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Field Name	Intel(R) AT
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enable/Disable BIOS AT Code from Runing

Field Name	Intel(R) AT Platform PBA
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable BIOS AT Code from Runing

Field Name	Intel(R) AT Suspend Mode
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Request that platform enter AT Suspend Mode - Only Available when AT Enrolled

3. Device Page

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
AC Power Loss State		[Last State]	Item help			
Wireless RF		[Enabled]				
Onboard Lan 0 Controller		[Enabled]				
Wake On Lan from Lan 0		[Enabled]				
<hr/>						<p>→←: Select Screen</p> <p>↑↓: Select Item</p> <p>Enter: Select</p> <p>+/- : Change Opt</p> <p>F1: General Help</p> <p>F2: Previous Values</p> <p>F3: Optimized Defaults</p> <p>F4: Save & Reset</p> <p>ESC: Exit</p>
▶ H/W Monitor						
▶ TXE Subsystem						
Onboard Lan 1 Controller		[Enabled]				
Wake On Lan from Lan 1		[Enabled]				
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Field Name	AC Power Loss State
Default Value	[Last State]
Possible Value	Power off Power on Last State
Help	Set the state after power loss.

Field Name	Wireless RF
------------	--------------------

Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or disable Wireless RF.

Field Name	Onboard LAN 0 Controller
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or disable onboard NIC.

Field Name	Wake On LAN from LAN 0
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or disable WOL from LAN 0 Device.

Field Name	Onboard LAN 1 Controller
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or disable onboard NIC.

Field Name	Wake On LAN from LAN 1
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or disable WOL from LAN 1 Device.

Field Name	H/W Monitor
Help	Monitor hardware status
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	TXE Subsystem
Help	Intel Trusted Execution Engine Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.1 H/W Monitor

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
PC Health Status						Item help
CPU temperature : +32						→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
SO-DMII temperature : +32						
VR temperature : +32						
SOC_CPU Volt : +X.XXX V						
SOC_CORE Volt : +X.XXX V						
SOC_I/O Volt : +X.XXX V						
Adapter Volt : +X.XXX V						
DDR_MEM Volt : +X.XXX V						
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Field Name	PC Health Status
------------	-------------------------

Field Name	CPU temperature
Possible Value	Show CPU temperature

Field Name	SO-DIMM temperature
Possible Value	Show SO-DIMM temperature

Field Name	VR temperature
Possible Value	Show VR temperature

Field Name	SOC_CPU Volt.
Possible Value	Show SOC_CPU Volt

Field Name	SOC_CORE Volt.
Possible Value	Show SOC_CORE Volt

Field Name	SOC_I/O Volt.
Possible Value	Show SOC_I/O Volt

Field Name	Adapter Volt.
Possible Value	Show Adapter Volt

Field Name	DDR_MEM Volt.
Possible Value	Show DDR_MEM Volt

3.2 TXE Subsystem

Main	Advanced	Device	Chipset Security	Boot	Save & Exit
TXE Information Sec RC Versio 00.05.00.00 TXE FW Version 1.00.02.1060					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	TXE Information
------------	------------------------

Field Name	Sec RC Version
Possible Value	Show Sec RC Version

Field Name	TXE FW Version
Possible Value	Show TXE FW Version

4. Chipset Page

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Memory Information						Item help
Total Memory		8192 MB (LPDDR3)				
Memory Slot0		4096 MB (LPDDR3)				→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Memory Slot1		4096 MB (LPDDR3)				
DVMT Pre-Allocated		[64MB]				
DVMT Total Gfx Mem		[256MB]				
Audio Controller		[Enable]				
Azalia HDMI Codec		[Enable]				
USB Per Port Control		[Enable]				
USB Port 0		[Enable]				
USB Port 1		[Enable]				
USB Port 2		[Enable]				
USB Port 3~5		[Enable]				
High Precision Timer		[Enable]				
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Field Name	Memory Information
------------	---------------------------

Field Name	Total Memory
Possible Value	Show current total memory in system

Field Name	Memory Slot0
------------	---------------------

Possible Value	Show current memory slot0 information
----------------	---------------------------------------

Field Name	Memory Slot1
Possible Value	Show current memory slot1 information

Field Name	DVMT Pre-Allocated
Default Value	[64MB]
Possible Value	64MB / 96MB / 128MB / 256MB / 384MB
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

Field Name	DVMT Total Gfx Mem
Default Value	[256MB]
Possible Value	128MB / 256MB / Max
Help	Select DVMT 5.0 Total Graphic Memory size used by the Internal Graphics Device.

Field Name	Audio Controller
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Control Detection of the Azalia device. Disabled = Azalia will be unconditionally disabled. Enabled = Azalia will be unconditionally Enabled. Auto = Azalia will be enabled if present disabled otherwise.

Field Name	Azalia HDMI Codec
Default Value	[Enabled]
Possible Value	Disabled

	Enabled
Help	Enable/Disable internal HDMI codec for Azalia

Field Name	USB Per Port Control
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Control each of the USB ports (0~3). Enable:Enable USB per port Disable: Use USB port X settings

Field Name	USB Port 0
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable / Disable USB Port 0

Field Name	USB Port 1
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable / Disable USB Port 1

Field Name	USB Port 2
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable / Disable USB Port 2

Field Name	USB Port 3~5
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable / Disable USB Port 3~5

Field Name	High Precision Timer
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable the High Precision Event Timer

	I210 options if User Password.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	HDD Security Configuration: P0: WDC WD6400AA
Help	Set HDD password
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Boot menu
Help	Customizable Secure Boot settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

5.1 HDD Security Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit																		
<p>HDD Password Description</p> <p>Allow Access to Set, Modify and Clear Hard Disk User and Master Password. User Password need to be installed for Enabling Security. Master Password can Be Modified only when successfully unlocked With Master Password in POST.</p> <p>HDD PASSWORD CONFIGURATION:</p> <table> <tr> <td>Security Supported</td> <td>:</td> <td>Yes</td> </tr> <tr> <td>Security Enabled</td> <td>:</td> <td>No</td> </tr> <tr> <td>Security Locked</td> <td>:</td> <td>No</td> </tr> <tr> <td>Security Frozen</td> <td>:</td> <td>No</td> </tr> <tr> <td>HDD User Pwd Status</td> <td></td> <td>NOT INSTALLED</td> </tr> <tr> <td>HDD Master Pwd Status</td> <td></td> <td>NOT INSTALLED</td> </tr> </table> <p>Set User Password</p>					Security Supported	:	Yes	Security Enabled	:	No	Security Locked	:	No	Security Frozen	:	No	HDD User Pwd Status		NOT INSTALLED	HDD Master Pwd Status		NOT INSTALLED	<p>Item help</p>
Security Supported	:	Yes																					
Security Enabled	:	No																					
Security Locked	:	No																					
Security Frozen	:	No																					
HDD User Pwd Status		NOT INSTALLED																					
HDD Master Pwd Status		NOT INSTALLED																					
					<p>→←: Select Screen</p> <p>↑↓: Select Item</p> <p>Enter: Select</p> <p>+/- : Change Opt</p> <p>F1: General Help</p> <p>F2: Previous Values</p> <p>F3: Optimized Defaults</p> <p>F4: Save & Reset</p> <p>ESC: Exit</p>																		
<p>Version 2.15.1326. Copyright (C) 2012 American Megatrends, Inc.</p>																							

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

5.2 Secure Boot menu

Main	Advanced	Chipset	Boot	Security	Save & Exit
System Mode Setup Secure Boot Disabled Secure Boot Support [Disabled] Secure Boot Mode [Custom] ► Key Management					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	Secure Boot Control
Default Value	[Disabled]
Possible Value	Enabled / Disabled
Help	Secure Boot can be enabled if 1.System running in User mode with enrolled Platform Key(PK) 2.CSM function is disabled

Field Name	Secure Boot Mode
Default Value	[Custom]

Possible Value	Standard / Custom
Help	Secure Boot mode selector. 'Custom' Mode allows physically present users ability to override Image Execution policy and manage Secure Boot Keys.

5.2.1 Key Management

Main	Advanced	Chipset	Boot	Security	Save & Exit
Default Key Provisioning [Disabled]					Item help
<ul style="list-style-type: none"> ▶ Enroll All Factory Default Keys ▶ Save All Secure Boot Variables 					
Platform Key (PK) NOT INSTALLED					
<ul style="list-style-type: none"> ▶ Delete PK ▶ Set new PK 					
Key Exchange Key Database (KEK) NOT INSTALLED					
<ul style="list-style-type: none"> ▶ Delete KEK ▶ Set new KEK ▶ Append Var to KEK 					
Authorized Signature Database(DB) NOT INSTALLED					
<ul style="list-style-type: none"> ▶ Delete DB ▶ Set new DB ▶ Append Var to DB 					
Forbidden Signature Database(DBX) NOT INSTALLED					
<ul style="list-style-type: none"> ▶ Delete DBX ▶ Set new DBX ▶ Append Var to DBX 					
→←: 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	Default Key Provisioning
Default Value	[Disabled]
Possible Value	Enabled / Disabled
Help	Install Factory default Secure Boot Keys when System is in Setup Mode.

Field Name	Enroll All Factory Default Keys
Help	Force System to User Mode - install all Factory Default keys(PK,KEK,db,dbx,dbt). Change takes effect after reboot.
Comment	

Field Name	Delete All Factory Default Key
Help	Force System to User Mode - clear all Factory Default keys(PK,KEK,db,dbx). Change takes effect after reboot
Comment	

Field Name	Save All Secure Boot Variables
Help	Store content of each Secure Boot Variable(data formatted as EFI_SIGNATURE_LIST) to a file with matching name on selected file system
Comment	

Field Name	Delete PK
Help	Delete the Variable from NVRAM. Removing PK will reset System to Setup Mode
Comment	

Field Name	Set new PK
Help	Insert Factory Default Keys or load from a file formatted as: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST, b)EFI_CERT_X509 (DER encoded), c)EFI_CERT_RSA2048 (bin),

	d)EFI_CERT_SHA256 (bin) 2.Efi Time-Based Authenticated Variable
Comment	

Field Name	Delete KEK
Help	Delete the Variable from NVRAM. Removing KEK will reset System to Setup Mode
Comment	

Field Name	Set new KEK
Help	Insert Factory Default Keys or load from a file formatted as: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST, b)EFI_CERT_X509 (DER encoded), c)EFI_CERT_RSA2048 (bin), d)EFI_CERT_SHA256 (bin) 2.Efi Time-Based Authenticated Variable
Comment	

Field Name	Append KEK
Help	Insert Factory Default Keys or load from a file formatted as: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST, b)EFI_CERT_X509 (DER encoded), c)EFI_CERT_RSA2048 (bin), d)EFI_CERT_SHA256 (bin) 2.Efi Time-Based Authenticated Variable
Comment	

Field Name	Delete DB
------------	------------------

Help	Delete the Variable from NVRAM. Removing DB will reset System to Setup Mode
Comment	

Field Name	Set new DB
Help	<p>Insert Factory Default Keys or load from a file formatted as:</p> <p>1.Public Key Certificate in:</p> <p>a)EFI_SIGNATURE_LIST,</p> <p>b)EFI_CERT_X509 (DER encoded),</p> <p>c)EFI_CERT_RSA2048 (bin),</p> <p>d)EFI_CERT_SHA256 (bin)</p> <p>2.Efi Time-Based Authenticated Variable</p>
Comment	

Field Name	Append DB
Help	<p>Insert Factory Default Keys or load from a file formatted as:</p> <p>1.Public Key Certificate in:</p> <p>a)EFI_SIGNATURE_LIST,</p> <p>b)EFI_CERT_X509 (DER encoded),</p> <p>c)EFI_CERT_RSA2048 (bin),</p> <p>d)EFI_CERT_SHA256 (bin)</p> <p>2.Efi Time-Based Authenticated Variable</p>
Comment	

Field Name	Delete DBX
Help	Delete the Variable from NVRAM. Removing DBX will reset System to Setup Mode
Comment	

Field Name	Set new DBX
------------	--------------------

Help	Insert Factory Default Keys or load from a file formatted as: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST, b)EFI_CERT_X509 (DER encoded), c)EFI_CERT_RSA2048 (bin), d)EFI_CERT_SHA256 (bin) 2.Efi Time-Based Authenticated Variable
Comment	

Field Name	Append DBX
Help	Insert Factory Default Keys or load from a file formatted as: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST, b)EFI_CERT_X509 (DER encoded), c)EFI_CERT_RSA2048 (bin), d)EFI_CERT_SHA256 (bin) 2.Efi Time-Based Authenticated Variable
Comment	

6. Boot

Boot mode select = UEFI

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Boot Configuration						Item help
Setup Prompt Timeout				3		
Bootup NumLock State				[On]		
Quiet Boot				[Disable]		
Fast Boot				[Enabled]		
VGA Support				[EFI Driver]		
USB Support				[Partial Initial]		
PS2 Devices Support				[Enabled]		
Network Stack Driver Support				[Enabled]		
Alternate Boot Sequence				[<F12> Key]		
Boot Other Device				[Disable]		
Boot Mode select				[UEFI]		
FIXED BOOT ORDER Priorities						
Boot Option #1				[UEFI CD/DVD]		→←: Select Screen
Boot Option #2				[UEFI Hard Disk:Win.]		↑↓: Select Item
Boot Option #3				[UEFI USB KEY]		Enter: Select
Boot Option #4				[UEFI Network]		+/- : Change Opt
Boot Option #5				[UEFI USB CD/DVD]		F1: General Help
Boot Option #6				[UEFI USB Hard Disk]		F2: Previous Values
▶ UEFI Hard Disk Drive BBS Priorities						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Boot mode select = LEGACY

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit
Boot Configuration						Item help
Setup Prompt Timeout				3		
Bootup NumLock State				[On]		
Quiet Boot				[Disable]		
Fast Boot				[Enabled]		
VGA Support				[EFI Driver]		
USB Support				[Partial Initial]		
PS2 Devices Support				[Enabled]		
Network Stack Driver Support				[Enabled]		
Alternate Boot Sequence				[<F12> Key]		
Boot Other Device				[Disable]		
Boot Mode select				[LEGACY]		
FIXED BOOT ORDER Priorities						
Boot Option #1				[USB Floopy]		
Boot Option #2				[USB KEY]		
Boot Option #3				[USB Hard Disk]		→←: Select Screen
Boot Option #4				[USB CD/DVD]		↑↓: Select Item

Boot Option #5

[Hard Disk]

Boot Option #6

[Network]

Enter: Select

+/- : Change Opt

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Reset

ESC: Exit

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Field Name	Setup Prompt Timeout
Default Value	[3]
Possible Value	1~65535
Help	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Field Name	Boot NumLock State
Default Value	[On]
Possible Value	On Off
Help	Select the keyboard NumLock state

Field Name	Quiet Boot
Default Value	[Disabled]

Possible Value	Enabled Disabled
Help	Enables or disables Quiet Boot option

Field Name	Fast Boot
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.

Field Name	VGA Support
Default Value	[EFI Driver]
Possible Value	EFI Driver / Auto
Help	If Auto, only install Legacy OpRom with Legacy OS and logo would NOT be shown during post. Efi driver will still be installed with EFI OS.

Field Name	USB Support
Default Value	[Partial Initial]
Possible Value	Disable / Full Initial / Partial Initial
Help	If Disabled, all USB devices will NOT be available until after OS boot. If Partial Initial, USB Mass Storage and specific USB port/device will NOT be available before OS boot. If Enabled, all USB devices will be available in OS and Post.

Field Name	PS2 Devices Support
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	If Disabled, PS2 devices will be skipped.

Field Name	NetWork Stack Driver Support
Default Value	[Enabled]
Possible Value	Enabled Disabled

Help	If Disabled, NetWork Stack Driver will be skipped.
------	--

Field Name	Alternate Boot Sequence
Default Value	[<F12> Key]
Possible Value	Disable / <F12> Key
Help	Specifies whether a Magic Packet(TM) powering on the system, pressing <F12> during the POST, or both, will cause the normal boot sequence to be skipped and a LAN-only boot to be attempted. If Boot Other Device is enabled, other boot devices are tried if LAN boot fails.

Field Name	Boot Other Device
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	If enabled, the system will try booting all device categories if the normal boot priority fails.

Field Name	Boot mode select
Default Value	[UEFI]
Possible Value	LEGACY UEFI
Help	Secure Boot mode selector. 'Custom' Mode allows physically present users ability to override Image Execution policy and manage Secure Boot Keys.

Boot mode select = UEFI, FIXED BOOT ORDER Priorities

Field Name	Boot Option #1
Default Value	[UEFI CD/DVD]
Possible Value	UEFI CD/DVD, UEFI Hard Disk, UEFI USB KEY, UEFI Network, UEFI USB CD/DVD,UEFI USB Hard Disk, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #2
Default Value	[UEFI Hard Disk]
Possible Value	UEFI CD/DVD, UEFI Hard Disk, UEFI USB KEY, UEFI Network,

	UEFI USB CD/DVD,UEFI USB Hard Disk, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #3
Default Value	[UEFI USB Key]
Possible Value	UEFI CD/DVD, UEFI Hard Disk, UEFI USB KEY, UEFI Network, UEFI USB CD/DVD,UEFI USB Hard Disk, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #4
Default Value	[UEFI Network]
Possible Value	UEFI CD/DVD, UEFI Hard Disk, UEFI USB KEY, UEFI Network, UEFI USB CD/DVD,UEFI USB Hard Disk, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #5
Default Value	[UEFI USB CD/DVD]
Possible Value	UEFI CD/DVD, UEFI Hard Disk, UEFI USB KEY, UEFI Network, UEFI USB CD/DVD,UEFI USB Hard Disk, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #6
Default Value	[UEFI USB Hard Disk]
Possible Value	UEFI CD/DVD, UEFI Hard Disk, UEFI USB KEY, UEFI Network, UEFI USB CD/DVD,UEFI USB Hard Disk, Disabled.
Help	Sets the system boot order.

Boot mode select = LEGACY, FIXED BOOT ORDER Priorities.

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

Field Name	Boot Option #2
Default Value	[Hard Disk]

Possible Value	CD/DVD, Hard Disk, USB KEY, Network, USB CD/DVD, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #3
Default Value	[USB Key]
Possible Value	CD/DVD, Hard Disk, USB KEY, Network, USB CD/DVD, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boor order.

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

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

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

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

7. Save & Exit

Main	Advanced	Device	Chipset	Security	Save & Exit	Save & Exit
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Options Restore user Defaults Restore Defaults Restore Defaults Save as user Defaults Restore user Defaults Boot Override UEFI: Built-in UEFI Shell Windows Boot Manager Launch EFI Shell from filesystem device ▶ Reset System with ME disable Mode						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	Save Changes and Exit
Help	Exit system setup after saving the changes.
Comment	

Field Name	Discard Changes and Exit
Help	Exit system setup without saving any changes.
Comment	

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

Field Name	Discard Changes and Reset
Help	Reset system setup without saving any changes.
Comment	

Field Name	Save Options
------------	---------------------

Field Name	Save Changes
Help	Save Changes done so far to any of the setup options.
Comment	

Field Name	Discard Changes
Help	Discard Changes done so far to any of the setup options.
Comment	

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

Field Name	Save as User Defaults
Help	Save the changes done so far as User Defaults.
Comment	

Field Name	Restore User Defaults
Help	Restore the User Defaults to all the setup options.
Comment	

Field Name	Boot Override
------------	----------------------

Field Name	Launch EFI Shell from filesystem device
Help	Attempts to Launch EFI Shell application (Shell.efi) from one of the available filesystem devices
Comment	

Field Name	Launch EFI Shell from filesystem device
Help	Attempts to Launch EFI Shell application (Shellx64.efi) from one of the available filesystem devices
Comment	

Field Name	Reset System with ME disable Mode
Help	ME will runs into the temporary disable mode, Ignore if ME Ignition FW
Comment	

Field Name	Restore user Defaults
Help	Restore the User Defaults to all the setup options.
Comment	