

D150-L

User Manual (Version 1.0)

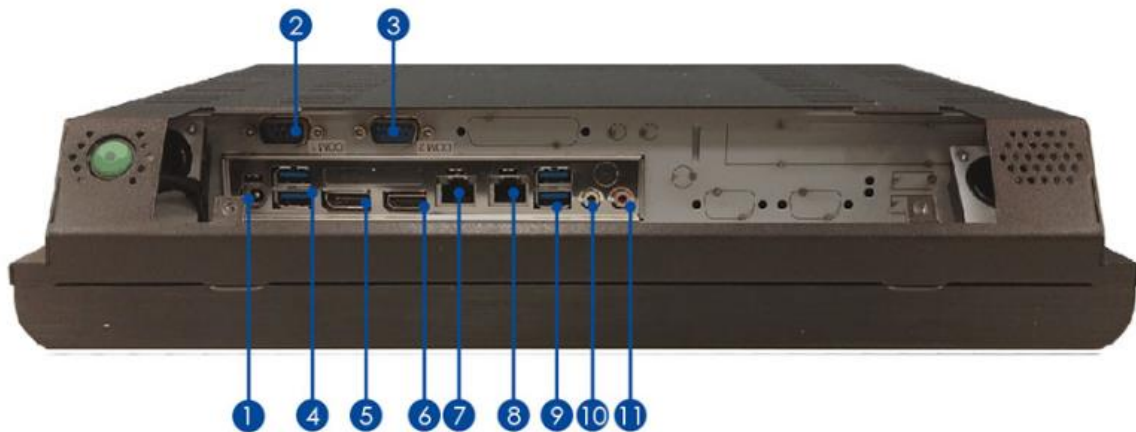
Front View



Rear View



Bottom View



1 +-+ DC Jack

2 COM

3 COM

4 USB 3.0

5 DisplayPort

6 HDMI

7 Giga LAN

8 Giga LAN

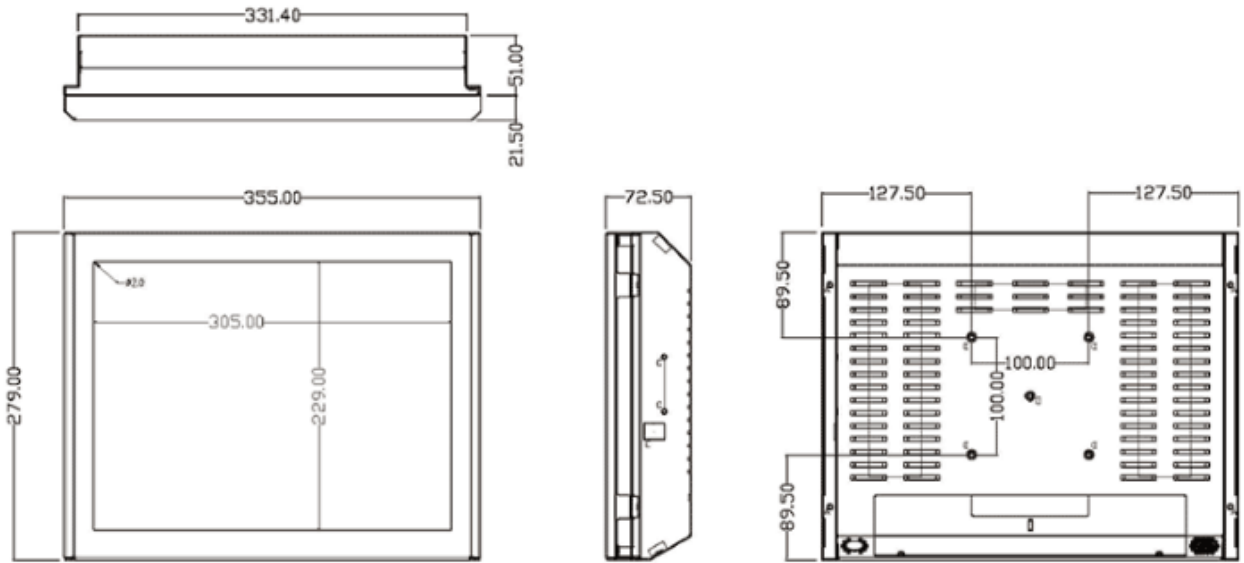
9 USB 3.0

10 Line-out

11 Mic-in

Mechanical Dimension

D150-B dimension: 355 x 279 x 72.5 mm



VESA mounting: 100 x 100 mm

Product Specifications

MECHANICAL	MOUNTING	VESA 100 / Stand
	DIMENSIONS (W X D X H)	280 x 355 x 55 mm
	WEIGHT	5kg (11.1 lb)
LCD	DISPLAY TYPE	15" TFT-LCD
	MAX. RESOLUTION	1024 x 768
	MAX. COLORS	16M (8 bit / color)
	LUMINANCE (cd/m2)	350
	VIEWING ANGLE (H/V)	160° / 145°
	LED BACKLIGHT LIFETIME (hrs)	50,000
	TYPE	resistive
TOUCH SCREEN	TOUCH SCREEN	single point
SYSTEM	PROCESSOR	4th Gen Intel® Haswell LGA1150 Socket Processor, TDP Max. 35W
	CHIPSET	Intel® Q87 (Support RAID 0 / 1 / 5 / 10)
	SYSTEM MEMORY	DDR3 1600 MHz / 2 x 204-pin SO-DIMM / Max. 16GB (Non-ECC)
	ETHERNET	Intel® I217-LM Giga LAN + Intel® I210-AT Giga LAN
	I/O PORT	2 x RS232 / 2 x RJ45 / 1 x DisplayPort 1.2 / 1 x DC Jack / 4 x USB 3.0 / 1 x HDMI 1.4 / 1 x Line-out / 1 x Mic-in

	EXPANSION SLOT	Mini PCIe Half size (PCIe / USB) / Mini PCIe Full size (PCIe / USB / SATA)
	STORAGE	1 x SATA 2.5" HDD / SSD bay
	STEREO SPEAKER	2 x 2W
	OS SUPPORT	Windows 7 32bit / 64bit / Windows 10 64bit / Linux (support by request)
	WATCHDOG TIMER	1~255 steps by software program
POWER REQUIREMENT	POWER INPUT	12V DC-in Jack (Default)
	POWER ADAPTER	84W adapter / DC12V / 7A / AC / DC
ENVIRONMENTAL	OPERATING TEMPERATURE	-20~50°C (4 ~ 122°F)
	STORAGE TEMPERATURE	-20 ~ 70°C (-4 ~158°F)
	STORAGE HUMIDITY	10% ~ 90% @40°C non-condensing
	VIBRATION RESISTANCE	Operating Random vibration Test 5-500Hz, 0.3 Grms@with HDD
	SHOCK RESISTANCE	Operating 50 G peak (3 ms duration)
	EMC	CE / FCC Class A
	FRONT PANEL PROTECTION	IP65 Compliant

Quick Installation Guide



Remove cover screws



Reverse Unit and Remove front cover



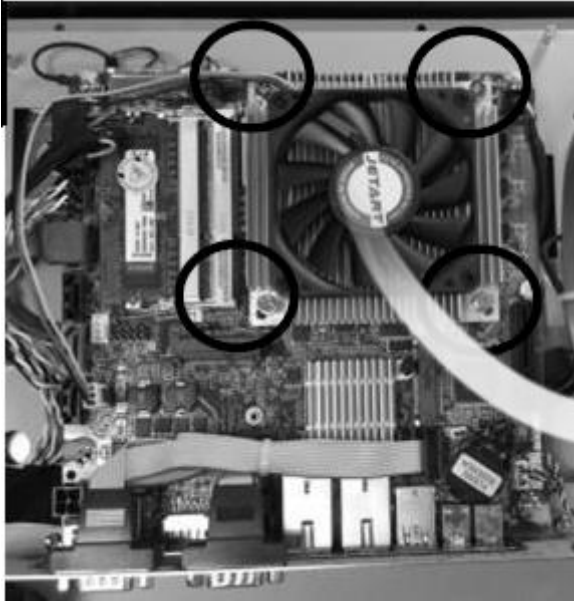
Remove 6 panel screws



Separate system module by lifting



Install HDD & memory



CPU cooler installation



Assemble LCD module



Fix 6 panel screws



Assemble front cover



Secure Cover Screws

BIOS Information

1. Main Page

Main Advanced Chipset Boot Security Save & Exit		
BIOS Information BIOS Vender American Megatrends Core Version 4.6.5.4 Compliancy UEFI 2.3.1; PI 1.2 BIOS Version D7340X01 Build Date and Time 11/07/2013 14:02:20 Processor Information Intel(R) Core(TM) i5-3550S CPU @ 3.00GHz Frequency 3000 MHz Processor ID 306c3 Microcode Revision 16 Primary VBIOS Version 2177 Total Memory 16384 MB (DDR3) Memory Frequency 1333 Mhz ME FW Revision 9.0.20.1447 System Date [Mon mm/dd/yyyy] System Time [hh: mm:ss]		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	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	4.6.5.4
Comment	This field is not selectable. There is no help text associated with it

Field Name	Complacency
Default Value	UEFI 2.3.1; 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	Frequency
Value	Display processor frequency
Comment	This field is not selectable. There is no help text associated with it

Field Name	Processor ID
Value	Display processor ID.
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	Primary VBIOS Version
Value	Display Integrate VGA BIOS version.
Comment	This field is not selectable. There is no help text associated with it

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

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

Field Name	ME FW Version
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Value	Display ME F/W version.
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.

2. Advanced Page

Main	Advanced	Chipset	Boot	Security	Save & Exit
Wireless RF [Enabled]					Item help
Quick Charging [Disabled]					
▶ S5 RTC Wake Settings ▶ Trusted Computing ▶ CPU Configuration ▶ SATA Configuration ▶ Intel Rapid Start Technology ▶ AMT Configuration ▶ USB Configuration ▶ SMART Settings ▶ NCT6683D Super IO Configuration ▶ Network Stack					
▶ Intel ® Ethernet Network Connection i217-LM – 88:88:88:… ▶ Intel ® I210 Gigabit Network Connection – 00:22:4D:A7:…					→←: 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	Wireless RF
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Wireless RF switch.

Field Name	Quick Charging
Default Value	[Disabled]
Possible Value	Enabled

	Disabled
Help	Enable: This selection allow user enable quick charging support Under S0 – S5 but USB function disabled. Disable: This selection disable quick charging function, treat this Port as normal USB port.

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

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

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

Field Name	Intel Rapid Start Technology
Help	Intel(R) Rapid Start Technology.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	AMT Configuration
Help	Configure Active Management Technology Parameters.
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	SMART Settings
Help	System SMART Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	NCT6683D Super IO Configuration
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	Intel® Ethernet Network Connection i217-LM – 88:88:88:87:88
Help	Configure Gigabit Ethernet device parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Intel® I210 Gigabit Network Connection – 00:22:4D:A7:23:9B
Help	Configure Gigabit Ethernet device parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.1 S5 RTC Wake Settings

Main	Advanced	Chipset	Boot	Security	Save & Exit
Wake system with Fixed Time [Enabled] Wake up hour 0 Wake up minute 0 Wake up second 0					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	Wake system with Fixed Time
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enable or Disable System wake on alarm event. When enabled, System will wake on the hr::min::sec specified

Field Name	Wake up hour
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 minute
Default Value	[0]
Possible Value	0-59
Help	0 - 59

Field Name	Wake up second
Default Value	[0]
Possible Value	0 - 59
Help	0 - 59

2.2 Trusted Computing

Main	Advanced	Chipset	Boot	Security	Save & Exit
Configuration Security Device Support [Enable] TPM State [Enabled] Pending operation [None]					Item help
Current Status Information TPM Enabled Status: [Enabled] TPM Active Status: [Activated] TPM Owner Status: [Owned]					→←: 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	TPM State
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable/Disable Security Device. NOTE: Your Computer will reboot during restart in order to change State of the Device.

Field Name	Pending operation
Default Value	[None]

Possible Value	None / Enable Take Ownership / Disable Take Ownership / 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	TPM Enabled Status:
Default Value	[Enabled]
Comment	This field is not selectable. There is no help text associated with it.

Field Name	TPM Active Status:
Default Value	[Activated]
Comment	This field is not selectable. There is no help text associated with it.

Field Name	TPM Owner Status:
Default Value	[Owned]
Comment	This field is not selectable. There is no help text associated with it.

2.3 CPU Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
CPU Configuration					
Intel(R) Core(TM) CPU [CPU NAME] @ [CPU Freq.] GHz					Item help
CPU Signature					306c3
Microcode Patch					16
Max CPU Speed					3400 MHz
Min CPU Speed					800 MHz
CPU Speed					3400 MHz
Processor Cores					4
Intel HT Technology					Supported
Intel VT-x Technology					Supported
Intel SMX Technology					Supported
64-bit					Supported
L1 Data Cache					32 KB x 4
L1 Code Cache					32 KB x 4
L2 Cache					256 KB x 4
L3 Cache					6144 KB
Hyper-threading					[Enabled]
Active Processor Cores					[All]
Intel Virtualization Technology					[Enabled]
EIST					[Enabled]
Turbo Mode					[Enabled]
CPU C3 Report					[Enabled]
CPU C6 Report					[Enabled]
CPU C7 Report					[CPU C7s]
Intel TXT(LT) Support					[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	CPU Configuration
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with it.

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

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	CPU Speed
Default Value	Displays the 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	Intel SMX Technology
Default Value	Secure Mode extensions support.
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	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	Hyper-threading (Hided if HT Not Supported)
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS not optimized for Hyper-Threading Technology). When Disable only one thread per enabled core is enabled.

Field Name	Active Processor Cores
Default Value	[All]
Possible Value	All 1/2/3/4/5/6/7/8
Help	Number of cores to enable in each processor package.

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

Field Name	EIST
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable Intel SpeedStep.

Field Name	Turbo Mode
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Turbo Mode.

Field Name	CPU C3 Report
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable CPU C3 report to OS

Field Name	CPU C6 Report
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable CPU C6 report to OS

Field Name	CPU C7 Report
Default Value	[CPU C7s]
Possible Value	Disabled / CPU C7 / CPU C7s
Help	Enable/Disable CPU C7 report to OS

Field Name	Intel TXT(LT) Support
Default Value	[Disabled]

Possible Value	Disabled Enabled
Help	Enables or Disables Intel ® TXT(LT) support.

2.4 SATA Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
<div>SATA Mode Selection [AHCI]</div> <div>SATA Controller Speed [Default]</div> <div>Serial ATA Port 0 Empty</div> <div>Port 0 [Enabled]</div> <div>Hot Plug [Disabled]</div> <div>mSATA Port Empty</div> <div>mSATA Port [Enabled]</div> <div>Serial ATA Port 2 Empty</div> <div>Port 2 [Enabled]</div> <div>Hot Plug [Disabled]</div> <div>Serial ATA Port 3 Empty</div> <div>Port 3 [Enabled]</div> <div>Hot Plug [Disabled]</div> <div>Serial ATA Port 4 Empty</div> <div>Port 4 [Enabled]</div> <div>Hot Plug [Disabled]</div>					<div>Item help</div> <div>→←: Select Screen</div> <div>↑↓: Select Item</div> <div>Enter: Select</div> <div>+/- : Change Opt</div> <div>F1: General Help</div> <div>F2: Previous Values</div> <div>F3: Optimized Defaults</div> <div>F4: Save & Reset</div> <div>ESC: Exit</div>
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Field Name	SATA Mode Selection
Default Value	[AHCI]
Possible Value	IDE / AHCI /RAID
Help	Determines how SATA controller(s) operate.

Field Name	SATA Controller Speed
Default Value	[Default]
Possible Value	Default / Gen1 / Gen2 / Gen3
Help	Indicates the maximum speed the SATA controller can support.

Field Name	Serial ATA Port 0
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	Port 0
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable or Disable SATA Port.

Field Name	Hot Plug
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Designates this port as Hot Pluggable.

Field Name	mSATA Port
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	mSATA Port
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable or Disable SATA Port.

Field Name	Serial ATA Port 2
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	Port 2
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable or Disable SATA Port.

Field Name	Hot Plug
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Designates this port as Hot Pluggable.

Field Name	Serial ATA Port 3
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	Port 3
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable or Disable SATA Port.

Field Name	Hot Plug
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Designates this port as Hot Pluggable.

Field Name	Serial ATA Port 4
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	Port 4
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable or Disable SATA Port.

Field Name	Hot Plug
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Designates this port as Hot Pluggable.

2.5 Intel® Rapid Start Technology

Main	Advanced	Chipset	Boot	Security	Save & Exit
Intel(R) Rapid Start Technology [Enabled] No valid partition. Entry on S3 RTC Wake [Enabled] Entry After 10 Active Page Threshold Support [Disabled]					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	Intel(R) Rapid Start Technology
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enable or disable Intel(R) Rapid Start Technology.

Field Name	Entry on S3 RTC Wake
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	RapidStart invocation upon S3 RTC wake.

Field Name	Entry After
Default Value	10
Possible Value	0 - 120
Help	Enable RTC wake timer at S3 entry. Value range from 0(Immediately) to 120 minutes.

Field Name	Active Page Threshold Support
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Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Support RST with small partition.

2.6 AMT Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit	
Intel AMT				[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
BIOS Hotkey Pressed				[Disabled]		
MEBx Selection Screen				[Disabled]		
Hide Un-Configure ME Confirmation				[Disabled]		
MEBx Debug Message Output				[Disabled]		
Un-Configure ME				[Disabled]		
Amt Wait Timer				0		
Disable ME				[Disabled]		
ASF				[Enabled]		
Activate Remote Assistance Process				[Disabled]		
USB Configure				[Enabled]		
PET Progress				[Enabled]		
AMT CIRA Timeout				0		
WatchDog				[Disabled]		
OS Timer				0		
BIOS Timer				0		

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Field Name	Intel AMT
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Intel(R) Active Management Technology BIOS Extension. Note: iAMT H/W is always enabled. This option just controls the BIOS extension execution. If enabled, this requires additional firmware in the SPI device.

Field Name	BIOS Hotkey Pressed
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	OEMFlag Bit 1: Enable/Disable BIOS hotkey press.

Field Name	MEBx Selection Screen
Default Value	[Disabled]

Possible Value	Disabled / Enabled
Help	OEMFlag Bit 2: Enable/Disable MEBx selection screen.

Field Name	Hide un-Configure ME Confirmation
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	OEMFlag Bit 6: Hide un-configure ME without password confirmation prompt.

Field Name	ME Debug Message Output
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	OEMFlag Bit 14: Enable MEBx debug message output.

Field Name	Un-Configure ME
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	OEMFlag Bit 15: Un-Configure ME without password.

Field Name	Amt Wait Timer
Default Value	0
Possible Value	0 - 65535
Help	Set timer to wait before sending ASF_GET_BOOT_OPTIONS..

Field Name	Disable ME
Default Value	Disabled
Possible Value	Disabled / Enabled
Help	Set ME to Soft Temporary Disabled.

Field Name	ASF
Default Value	Enabled
Possible Value	Disabled / Enabled
Help	Enable/Disable Alert Specification Format.

Field Name	Activate Remote Assistance Process
Default Value	Disabled
Possible Value	Disabled / Enabled

Help	Trigger CIRA boot
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Field Name	USB Configure
Default Value	Enabled
Possible Value	Disabled / Enabled
Help	Enable/Disabled USB Configure function.

Field Name	PET Progress
Default Value	Enabled
Possible Value	Disabled / Enabled
Help	User can Enable/Disabled PET events progress to receive PET events or not.

Field Name	AMT CIRA Timeout
Default Value	0
Possible Value	0 - 255
Help	OEM defined timeout for MPS connection to be established. 0 – use the default timeout value of 60 seconds. 255 – MEBX waits until the connection succeeds.

Field Name	WatchDog
Default Value	Disabled
Possible Value	Disabled / Enabled
Help	Enable/Disable Watchdog Timer.

Field Name	OS Timer
Default Value	0
Possible Value	0 – 65535
Help	Set OS watchdog timer.

Field Name	BIOS Timer
Default Value	0
Possible Value	0 – 65535
Help	Set BIOS watchdog timer.

2.7 USB Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
USB Configuration USB Devices: 1 Keyboard, 1 Mouse, 2 Hubs Legacy USB Support [Enabled] XHCI Hand-off [Enabled] EHCI Hand-off [Disabled]					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 Devices:
Default Value	Connected USB devices
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	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.
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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.

2.8 SMART Settings

Main	Advanced	Chipset	Boot	Security	Save & Exit
SMART Settings SMART Self Test [Disabled]					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	SMART Self Test
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Run SMART Self Test on all HDDs during POST.

2.9 NCT6683D Super IO Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
NCT6683D Super IO Configuration					Item help
Serial Port 0 [Enabled]					→←: 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 [Enabled]					
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Field Name	Serial Port 0
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port (COM).

Field Name	Serial Port 1
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port (COM).

2.10 Network Stack

Main	Advanced	Chipset	Boot	Security	Save & Exit
Network stack [Enabled] Ipv4 PXE Support [Enabled] Ipv6 PXE 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	Network stack
Default Value	[Enabled]
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.

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

2.11 Intel® Ethernet Network Connection i217-LM - 88:88:88:88:87:88

Main	Advanced	Chipset	Boot	Security	Save & Exit
PORT CONFIGURATION MENU ► NIC Configuration Blink LEDs (range 0 -15 seconds) 0 PORT CONFIGURATION INFORMATION UEFI Driver: Intel® 1GbE DEV 5.1.00 Adapter PBA: FFFFFFF-0FF Chip Type Intel PCH LPT PCI Device ID 153A PCI Bus:Device:Function: 0:25:0 Link Status: [Disconnected] Factory MAC Address: 88:88:88:88:87:88					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	NIC Configuration
Help	Click to configure the network device port.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Blink LEDs
Default Value	0
Possible Value	0 - 15
Help	Blink LEDs for the specified duration (up to 15 seconds).

Field Name	UEFI Driver:
Default Value	Installed UEFI Driver Name
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Adapter PBA:
Default Value	Adapter PBA number
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Chip Type:
------------	-------------------

Default Value	Chip Type Name
Comment	This field is not selectable. There is no help text associated with it

Field Name	PCI Device ID:
Default Value	I217 PCI Device ID number
Comment	This field is not selectable. There is no help text associated with it

Field Name	PCI Bus:Device:Function:
Default Value	[Bus:Device:Function]
Comment	This field is not selectable. There is no help text associated with it

Field Name	Link Status
Default Value	[Disconnected]
Help	Link Status

Field Name	Factory MAC Address:
Default Value	LAN Device MAC address
Comment	This field is not selectable. There is no help text associated with it

2.11.1 NIC Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
<div> <div>Link Speed</div> <div>Wake on LAN</div> <div>[AutoNeg]</div> <div>[Enabled]</div> </div>					<div>Item help</div> <div> →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit </div>
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Field Name	Link Speed
Default Value	[AutoNeg]
Possible Value	AutoNeg / 10 Mbps Half / 10 Mbps Full / 100 Mbps Half / 100 Mbps Full
Help	Change link speed and duplex for current port.

Field Name	Wake on LAN
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable this option to wake the system with a magic packet.

2.12 Intel® I210 Gigabit Network Connection - 00:22:4D:A7:23:9B

Main	Advanced	Chipset	Boot	Security	Save & Exit
PORT CONFIGURATION MENU ► NIC Configuration Blink LEDs (range 0-15 seconds) 0 PORT CONFIGURATION INFORMATION UEFI Driver: Intel® 1GbE DEV 5.1.00 Adapter PBA: 000500-000 Chip Type Intel i210 PCI Device ID 1533 PCI Bus:Device:Function 2:0:0 Link Status: [Disconnected] Factory MAC Address: 00:22:4D:A7:23:B7 Alternate MAC Address 00:22:4D:A7:23:B7					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	NIC Configuration
Help	Click to configure the network device port.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Blink LEDs
Default Value	0
Possible Value	0 - 15
Help	Blink LEDs for the specified duration (up to 15 seconds).

Field Name	UEFI Driver:
Default Value	Installed UEFI Driver Name
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Adapter PBA:
Default Value	Adapter PBA number
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Chip Type:
------------	-------------------

Default Value	Chip Type Name
Comment	This field is not selectable. There is no help text associated with it

Field Name	PCI Device ID:
Default Value	I217 PCI Device ID number
Comment	This field is not selectable. There is no help text associated with it

Field Name	PCI Bus:Device:Function:
Default Value	[Bus:Device:Function]
Comment	This field is not selectable. There is no help text associated with it

Field Name	Link Status
Default Value	[Disconnected]
Help	Link Status

Field Name	Factory MAC Address:
Default Value	LAN Device MAC address
Comment	This field is not selectable. There is no help text associated with it

Field Name	Alternate MAC Address:
Default Value	LAN Device MAC address
Help	Alternate assigned MAC address of Ethernet port.

2.12.1 NIC Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
<p>Link Speed [AutoNeg]</p> <p>Wake on LAN [Enabled]</p>					<p>Item help</p> <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>
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Field Name	Link Speed
Default Value	[AutoNeg]
Possible Value	AutoNeg / 10 Mbps Half / 10 Mbps Full / 100 Mbps Half / 100 Mbps Full
Help	Change link speed and duplex for current port.

Field Name	Wake on LAN
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable this option to wake the system with a magic packet.

3. Chipset

Main	Advanced	Chipset	Boot	Security	Save & Exit
▶ PCH-IO Configuration ▶ System Agent (SA) Configuration					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	PCH-IO Configuration
Help	PCH Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

3.1 PCH-IO Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
Wake on LAN [Enabled] DeepSx Power Policies [Disable] Restore AC Power Loss [Power Off] Onboard Audio [Auto] Front Panel Audio [Auto]					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	Wake on LAN
Default Value	[Enabled]
Possible Value	Enabled / Disabled
Help	Enable or disable integrated LAN to wake the system at S3, S4 and S5 state.

Field Name	DeepSx Power Policies
Default Value	[Disabled]
Possible Value	Disabled / Enabled in S5 / Enabled in S4-S5
Help	Configure the DeepSx Mode configuration.

Field Name	Restore AC Power Loss
Default Value	[Power Off]
Possible Value	Power Off / Power On / Last State
Help	Select AC power state when power is re-applied after a power failure.

Field Name	Onboard Audio
Default Value	[Auto]
Possible Value	Disable / Enabled / Auto

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	Front Panel Audio
Default Value	[Auto]
Possible Value	Auto / High Definition Front Panel / Legacy Front Panel / Disabled
Help	Automatically or Manually select the type of audio front panel installed.

3.2 System Agent (SA) Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
<p>▶ Graphics Configuration</p> <p>▶ Memory Configuration</p> <p>VT-d [Enabled]</p> <p>CPU SA Audio Device [Enabled]</p>					<p>Item help</p> <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>
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Field Name	Graphics Configuration
Help	Config Graphics Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	VT-d
Default Value	[Enabled]
Possible Value	Disable / Enabled
Help	Check to enable VT-d function on MCH.

Field Name	CPU SA Audio Device
Default Value	[Enabled]
Possible Value	Disable / Enabled
Help	Enable or disable CPU SA Audio Device.

3.2.1 Graphics Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
Graphics Configuration					
Primary VBIOS Version				2177	Item help →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Primary Display				[Auto]	
Internal Graphics				[Auto]	
DVMT Pre-Allocated				[32M]	
DVMT Total Gfx Mem				[256M]	
LVDS Display				[Enabled]	
LVDS Panel Type				[VBIOS Default]	
LVDS Interface Type				[Dual Channel]	
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Field Name	Primary VBIOS Version
Default Value	Primary VBIOS Version
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Primary Display
Default Value	[Auto]
Possible Value	Auto / IGFX / PCIE / SG
Help	Select which of IGFX/PCIE Graphics device should be Primary Display Or select SG for Switchable Gfx.

Field Name	Internal Graphics
Default Value	[Auto]
Possible Value	Auto / Disabled / Enabled
Help	Keep IGD enabled based on the setup options.

Field Name	DVMT Pre-Allocated
Default Value	[32M]
Possible Value	32M / 64M / 96M / 128M / 160M / 192M / 224M / 256M / 288M /

	320M / 352M / 384M / 416M / 448M / 480M / 512M / 1024M.
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	[256M]
Possible Value	128MB / 256MB / MAX
Help	Select DVMT5.0 Total Graphic Memory size used by the Internal Graphics Device.

Field Name	LVDS Display
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable / Disable LVDS display.

Field Name	LVDS Panel Type
Default Value	[VBIOS Default]
Possible Value	VBIOS Default / 640x480 / 800x600 / 1024x768 / 1280x1024 / 1400x1050(RB) / 1400x1050 / 1600x1200 / 1366x768 / 1680x1050 / 1920x1200 / 1440x900 / 1600x900 / 1024x768 / 1280x800 / 1920x1080 / 2048x1536
Help	Select LVDS panel used by Internal Graphics Device by selecting the appropriate setup item.

Field Name	LVDS Interface Type
Default Value	[Dual Channel]
Possible Value	Single Channel / Dual Channel
Help	Sets LVDS connectivity.

3.2.2 Memory Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
Memory Information Memory Frequency 1333 Mhz Total Memory 16384 MB (DDR3) Memory Voltage 1.50v DIMM 0 8192 MB (DDR3) DIMM 1 8192 MB (DDR3) CAS Latency (tCL) 9 Minimum delay time CAS to RAS (tRCDmin) 9 Row Precharge (tRPmin) 9 Active to Precharge (tRASmin) 24 XMP Profile 1 Not Supported XMP Profile 2 Not Supported DIMM profile [Default DIMM profile] Memory Frequency Limiter [Auto]					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	Memory Frequency
Default Value	Show Memory Frequency.
Comment	This field is not selectable. There is no help text associated with it

Field Name	Total Memory
Default Value	Total Memory in the System.
Comment	This field is not selectable. There is no help text associated with it

Field Name	Memory Voltage
Default Value	Memory voltage
Comment	This field is not selectable. There is no help text associated with it

Field Name	DIMM 0
Default Value	Memory in the DIMM.
Comment	This field is not selectable. There is no help text associated with it

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

Field Name	CAS Latency (tCL)
Default Value	tCL value
Comment	This field is not selectable. There is no help text associated with it

Field Name	CAS to RAS (tRCDmin)
Default Value	tRCD value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Row Precharge (tRPmin)
Default Value	tRP value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Active to Precharge (tRASmin)
Default Value	tRAS value
Comment	This field is not selectable. There is no help text associated with it

Field Name	XMP Profile 1
Default Value	Not Supported
Comment	This field is not selectable. There is no help text associated with it

Field Name	XMP Profile 2
Default Value	Not Supported
Comment	This field is not selectable. There is no help text associated with it

Field Name	DIMM profile
Default Value	[Default DIMM profile]
Possible Value	Default DIMM profile / Custom Profile / XMP profile 1 / XMP profile 2
Help	Select DIMM timing profile that should be used.

Field Name	Memory Frequency Limiter
Default Value	[Auto]
Possible Value	Auto / 1067 / 1333 / 1600 / 1867 / 2133 / 2400 /2667
Help	Maximum Memory Frequency Selections in Mhz.

3.2.2.1 Custom Profile Control

Main	Advanced	Chipset	Boot	Security	Save & Exit
Memory Timing Information					Item help
Memory Frequency					1333 Mhz
CAS Latency (tCL)					9
CAS to RAS (tRCDmin)					9
Row Precharge (tRPmin)					9
Active to Precharge (tRASmin)					24
Write Recovery (tWRmin)					10
Refresh Recovery (tRFCmin)					107
Row Active to Row Active (tRRDmin)					4
Write to Read Command (tWTRmin)					5
Read to PrechargeCommand(tRTPmin)					5
Four Activate Window (tFAWmin)					20
Memory Timing Configuration					
Memory Frequency Limiter					[1333]
tCL					15
tRCD					9
tRP					9
tRAS					24
tWR					10
tRFC					107
tRRD					4
tWTR					5
tRTP					5
tRC					33
tFAW					20
tCWL value					7
tREFI value					5200
					→←: 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	Memory Frequency
Default Value	Show Memory Frequency.

Comment	This field is not selectable. There is no help text associated with it
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Field Name	CAS Latency (tCL)
Default Value	tCL value
Comment	This field is not selectable. There is no help text associated with it

Field Name	CAS to RAS (tRCDmin)
Default Value	tRCD value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Row Precharge (tRPmin)
Default Value	tRP value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Active to Precharge (tRASmin)
Default Value	tRAS value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Write Recovery (tWRmin)
Default Value	tWR value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Refresh Recovery (tRFCmin)
Default Value	tRFC value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Row Active to Row Active (tRRDmin)
Default Value	tRRD value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Write to Read Command (tWTRmin)
Default Value	tWTR value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Read to Precharge Command (tRTPmin)
Default Value	tRTP value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Four Activate Window (tFAWmin)
Default Value	tFAW value
Comment	This field is not selectable. There is no help text associated with it

Field Name	Memory Frequency Limiter
Default Value	Memory Frequency in SPD data
Possible Value	1067 / 1333 / 1600 / 1867 / 2133 / 2400 /2667
Help	Maximum Memory Frequency Selections in Mhz.

Field Name	tCL
Default Value	[15]
Possible Value	4 - 18
Help	Cas Latency Range 4-18.

Field Name	tRCD
Default Value	[9]
Possible Value	1 - 38
Help	Row to Col Delay Range 1-38.

Field Name	tRP
Default Value	[9]
Possible Value	1 - 38
Help	Ras Precharge Range 1-38.

Field Name	tRAS
Default Value	[24]
Possible Value	1 - 586
Help	Ras Active Time 1-586.

Field Name	tWR
Default Value	[10]
Possible Value	1 - 38
Help	Min Write Recovery Time Range 1-38.

Field Name	tRFC
Default Value	[107]

Possible Value	1 - 9363
Help	Min Refresh Recovery Delay Time 1-9396.

Field Name	tRRD
Default Value	[4]
Possible Value	1 - 38
Help	Min Row Active to Row Active Delay Time 1-38.

Field Name	tWTR
Default Value	[5]
Possible Value	1 - 38
Help	Min Internal Write to Read Command Delay Time 1-38.

Field Name	tRTP
Default Value	[5]
Possible Value	1 - 38
Help	Min Internal Read to Precharge Command Delay Time 1-38.

Field Name	tRC
Default Value	[33]
Possible Value	1 - 586
Help	Min Active to Active/Refresh Delay Time (tRCmin) 1-586.

Field Name	tFAW
Default Value	[20]
Possible Value	1 - 586
Help	Min Four Activate Window Delay Time 1-586.

Field Name	tCWL value
Default Value	[7]
Possible Value	5 - 12
Help	Minimum CAS Write Latency Time (tCWLmin).

Field Name	tREFI value
Default Value	[5200]
Possible Value	1 - 10000
Help	Maximum tREFI Time (Average Periodic Refresh Interval).

4. Boot

Boot mode select = UEFI

Main	Advanced	Chipset	Boot	Security	Save & Exit
Boot Configuration Setup Prompt Timeout 1 Bootup NumLock State [On] Quiet Boot [Enabled] Fast Boot [Disabled] Boot mode select [UEFI]					Item help
FIXED BOOT ORDER Priorities Boot Option #1 [UEFI CD/DVD] Boot Option #2 [UEFI Hard Disk:Win.] Boot Option #3 [UEFI USB KEY] Boot Option #4 [UEFI Network] Boot Option #5 [UEFI USB CD/DVD] Boot Option #6 [UEFI USB Hard Disk]					
Boot Option Priorities Boot Option #1 [Windows Boot Man..] CSM parameters ► UEFI Hard Disk Drive BBS Priorities					→←: 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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Boot mode select = LEGACY

Main	Advanced	Chipset	Boot	Security	Save & Exit
<div>Boot Configuration</div> <div>Setup Prompt Timeout1</div> <div>Bootup NumLock State[On]</div> <div> </div> <div>Quiet Boot[Enabled]</div> <div>Fast Boot[Disabled]</div> <div>Boot mode select[Legacy]</div> <div> </div> <div>FIXED BOOT ORDER Priorities</div> <div>Boot Option #1[CD/DVD]</div> <div>Boot Option #2[Hard Disk: ST3160..]</div> <div>Boot Option #3[USB KEY]</div> <div>Boot Option #4[Network]</div> <div>Boot Option #5[USB CD/DVD]</div> <div>Boot Option #6[USB Hard Disk]</div> <div>Boot Option #7[USB Floppy]</div> <div> </div> <div>Boot Option Priorities</div> <div>Boot Option #1[P0: ST3160815AS...]</div> <div> </div> <div>Hard Drive BBS Priorities</div> <div>CSM parameters</div> <div>► Hard Disk Drive BBS Priorities</div>				<div>Itemhelp</div> <div> </div> <div> </div> <div>→←: Select Screen</div> <div>↑↓: Select Item</div> <div>Enter: Select</div> <div>+/- : Change Opt</div> <div>F1: General Help</div> <div>F2: Previous Values</div> <div>F3: Optimized Defaults</div> <div>F4: Save & Reset</div> <div>ESC: Exit</div>	
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Boot mode select = DUAL

Main	Advanced	Chipset	Boot	Security	Save & Exit
Boot Configuration				Item	help
Setup Prompt Timeout				1	
Bootup NumLock State				[On]	
Quiet Boot				[Enabled]	
Fast Boot				[Disabled]	
Boot mode select				[DUAL]	
FIXED BOOT ORDER Priorities					
Boot Option #1				[UEFI CD/DVD]	
Boot Option #2				[CD/DVD]	
Boot Option #3				[UEFI Hard Disk:Win.]	
Boot Option #4				[Hard Disk: ST3160..]	
Boot Option #5				[UEFI USB KEY]	
Boot Option #6				[USB KEY]	
Boot Option #7				[UEFI Network]	
Boot Option #8				[Network]	
Boot Option #9				[UEFI USB CD/DVD]	
Boot Option #10				[USB CD/DVD]	
Boot Option #11				[UEFI USB Hard Disk]	
Boot Option #12				[USB Hard Disk]	

<p>Boot Option #13</p> <p>[USB Floppy]</p> <p>Boot Option Priorities</p> <p>Boot Option #1 [Windows Boot Man..]</p> <p>Boot Option #2 [P0: ST3160815AS...]</p> <p>Hard Drive BBS Priorities</p> <p>CSM parameters</p> <p>► Hard Disk Drive BBS Priorities</p>	<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>
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Field Name	Setup Prompt Timeout
Default Value	[1]
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	[Enabled]
Possible Value	Enabled Disabled
Help	Enables or disables Quiet Boot option

Field Name	Fast Boot
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Disable PXE ROM if enable Fast Boot.

Field Name	Boot mode select
Default Value	[UEFI]
Possible Value	LEGACY / UEFI / DUAL
Help	Select boot mode LEGACY/UEFI.

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 boot 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.

Boot mode select = DUAL, FIXED BOOT ORDER Priorities.

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

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

Field Name	Boot Option #3
Default Value	[UEFI Hard Disk]

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

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

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

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

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

Field Name	Boot Option #8
Default Value	[Network]
Possible Value	UEFI CD/DVD, CD/DVD, UEFI Hard Disk, Hard Disk, UEFI USB Key, USB Key, UEFI Network, Network, UEFI USB CD/DVD, USB CD/DVD, UEFI USB Hard Disk, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #9
Default Value	[UEFI USB CD/DVD]
Possible Value	UEFI CD/DVD, CD/DVD, UEFI Hard Disk, Hard Disk, UEFI USB Key, USB Key, UEFI Network, Network, UEFI USB CD/DVD, USB CD/DVD, UEFI USB Hard Disk, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #10
Default Value	[USB CD/DVD]
Possible Value	UEFI CD/DVD, CD/DVD, UEFI Hard Disk, Hard Disk, UEFI USB Key, USB Key, UEFI Network, Network, UEFI USB CD/DVD, USB CD/DVD, UEFI USB Hard Disk, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #11
Default Value	[UEFI USB Hard Disk]
Possible Value	UEFI CD/DVD, CD/DVD, UEFI Hard Disk, Hard Disk, UEFI USB Key, USB Key, UEFI Network, Network, UEFI USB CD/DVD, USB CD/DVD, UEFI USB Hard Disk, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boot order.

Field Name	Boot Option #12
Default Value	[USB Hard Disk]
Possible Value	UEFI CD/DVD, CD/DVD, UEFI Hard Disk, Hard Disk,

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

Field Name	Boot Option #13
Default Value	[USB Floppy]
Possible Value	UEFI CD/DVD, CD/DVD, UEFI Hard Disk, Hard Disk, UEFI USB Key, USB Key, UEFI Network, Network, UEFI USB CD/DVD, USB CD/DVD, UEFI USB Hard Disk, USB Hard Disk, USB Floppy, Disabled.
Help	Sets the system boot order.

BOOT Option Priorities

Field Name	Boot Option #1 / Boot Option #2 / ...
Default Value	[Boot device name]
Possible Value	All Boot devices name.
Help	Sets the system boot order.

Field Name	Hard Drive BBS Priorities
Help	Sets the order of the legacy devices in this group.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	CD/DVD ROM BBS Priorities
Help	Sets the order of the legacy devices in this group.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Network BBS Priorities
Help	Sets the order of the legacy devices in this group.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	USB Device BBS Priorities
Help	Sets the order of the legacy devices in this group.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Unknown Device BBS Priorities
Help	Sets the order of the legacy devices in this group.

Comment	Press Enter when selected to go into the associated Sub-Menu.
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Field Name	CSM parameters
Help	OpROM execution, boot options filter, etc.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

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

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

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

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

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

4.1 CSM parameters

Main	Advanced	Chipset	Boot	Security	Save & Exit
Launch CSM [Enabled] Launch PXE OpROM policy [Do not launch]					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	Launch CSM
Default Value	[Enabled]
Possible Value	Enabled / Disabled
Help	This option controls if CSM will be launched.

Field Name	Launch PXE OpROM policy
Default Value	[Do not launch]
Possible Value	Do not launch / UEFI only / Legacy only
Help	Controls the execution of UEFI and Legacy PXE OpROM.

5. Security

Main	Advanced	Chipset	Boot	Security	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 ► Secure Boot menu HDD Security Configuration P0:WDC WD6400AA					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
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	User Password
Help	Set Setup User Password. Note: Only can modify System Date, System Timer, I217, and I210 options if User Password.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Boot menu
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Help	Customizable Secure Boot settings.
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.

5.1 Secure Boot menu

Main	Advanced	Chipset	Boot	Security	Save & Exit
<div>System Mode<div>Setup</div></div> <div>Secure Boot<div>Not Active</div></div> <div>Secure Boot Support<div>[Enabled]</div></div> <div>Secure Boot Mode<div>[Standard]</div></div> <div>▶ Key Management</div>					<div>Item help</div> <div>→←: Select Screen</div> <div>↑↓: Select Item</div> <div>Enter: Select</div> <div>+/- : Change Opt</div> <div>F1: General Help</div> <div>F2: Previous Values</div> <div>F3: Optimized Defaults</div> <div>F4: Save & Reset</div> <div>ESC: Exit</div>
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Field Name	Secure Boot Support
Default Value	[Enabled]
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	[Standard]
Possible Value	Standard / Custom
Help	Secure Boot mode selector. 'Custom' Mode enables user to change Image Execution policy and Secure Boot Keys

5.1.1 Key Management

Main	Advanced	Chipset	Boot	Security	Save & Exit
<p>Factory Default Key Provisioning [Disabled]</p> <p>▶ Install All Factory Default Keys</p> <p>▶ Save All Secure Boot Variables</p> <p>Platform Key (PK) NOT INSTALLED</p> <p>▶ Delete PK</p> <p>▶ Set new PK</p> <p>Key Exchange Key Database (KEK) NOT INSTALLED</p> <p>▶ Delete KEK</p> <p>▶ Set new KEK</p> <p>▶ Append KEK</p> <p>Authorized Signature Database(DB) NOT INSTALLED</p> <p>▶ Delete DB</p> <p>▶ Set new DB</p> <p>▶ Append DB</p> <p>Forbidden Signature Database(DBX) NOT INSTALLED</p> <p>▶ Delete DBX</p> <p>▶ Set new DBX</p> <p>▶ Append DBX</p>					<p>Item help</p> <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>
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Field Name	Factory 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	Install All Factory Default Keys
Help	Force System to User Mode - install all Factory Default keys(PK,KEK,db,dbx). Change takes effect after reboot

Comment	
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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's root folder
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	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 DB
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 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	

5.2 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 Password. User Password need to be installed for Enabling Security.</p> <p>HDD PASSWORD CONFIGURATION:</p> <p>Security : Yes</p> <p>Supported : No</p> <p>Security : No</p> <p>Enabled : No</p> <p>Security : No</p> <p>Locked : No</p> <p>Security : No</p> <p>Frozen : NOT INSTALLED</p> <p>Set User Password</p>					<p>Item help</p> <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>
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Field Name	Set User Password
Help	Set HDD User Password
Comment	Press Enter when selected to go into the associated Sub-Menu.

6. Save & Exit

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

Field Name	Restore Defaults
Help	Restore 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	

