

# MiTAC Panel PC System

## P156-11KS

### Product Guide

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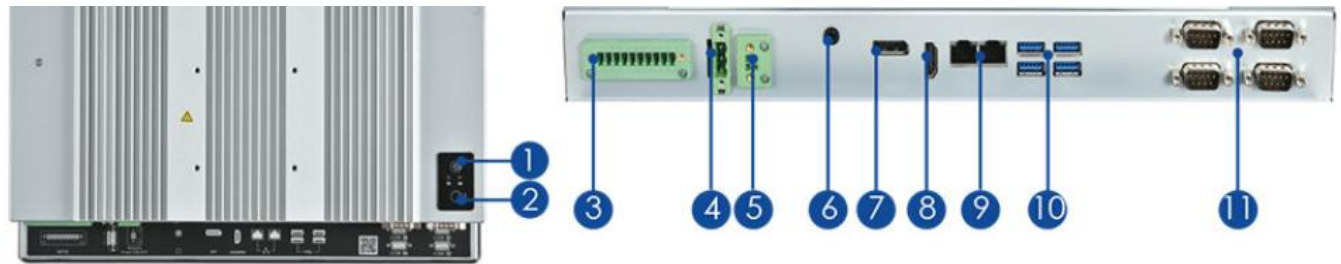
## Front View



## Rear View



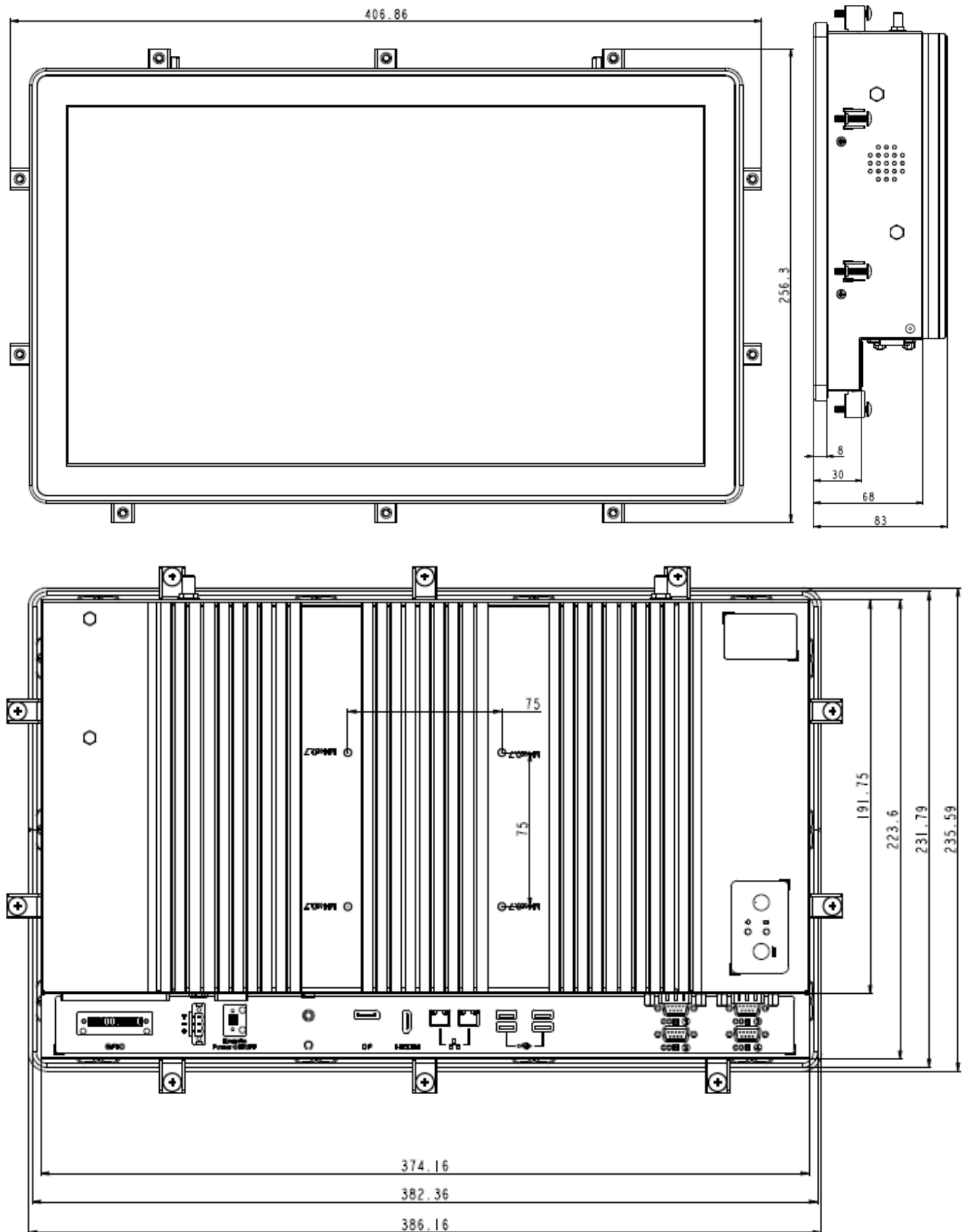
## Bottom View



- |                           |                |         |
|---------------------------|----------------|---------|
| 1  Power                  | 6  Audio Jack  | 11  COM |
| 2  Reset                  | 7  DisplayPort |         |
| 3  8 bit GPIO             | 8  HDMI        |         |
| 4  DC-in (terminal block) | 9  Giga LAN    |         |
| 5  Remote Power on/off    | 10  USB 3.0    |         |

# Mechanical Dimension

P156-11KS dimension: 386.16mm x 235.59mm x 83mm

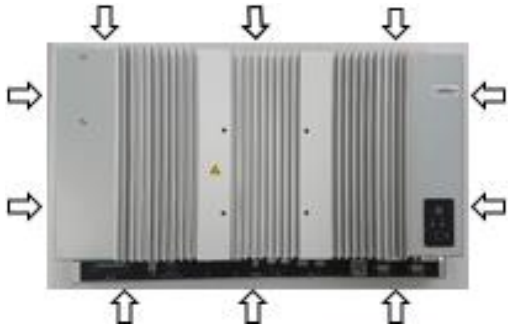


# Product Specifications

LCD	DISPLAY TYPE	15.6" TFT-LCD
	MAX. RESOLUTION	1920 x 1080
	MAX. COLORS	16.2M (8 bit / color)
	LUMINANCE (cd/m2)	450
	VIEWING ANGLE (H/V)	170° / 170°
	LED BACKLIGHT LIFETIME (hrs)	50,000
	HIGH BRIGHTNESS	Option
TOUCH SCREEN	TYPE	P-CAP
	TOUCH SCREEN	True-flat 10 points
	AR/AG	Option
SYSTEM	PROCESSOR	7th Gen Intel® Kaby Lake-U i3-7100U(Dual Core, 3MB Cache, 2.40 GHz) / option: 7th Gen Kaby Lake celeron 3965U / i5-7300U / i7-7600U / option: 6th Gen Skylake celeron 3955U / i3-6100U / i5-6300U / i7-6600U
	CHIPSET	Intel® SoC Integrated
	SYSTEM MEMORY	DDR4 2133MHz / 2 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
	ETHERNET	Intel® I219-LM Giga LAN + Intel® I211-AT Giga LAN
	I/O PORT	1 x 3-pin Phoenix type terminal block DC input / 2 x RJ45 / 1 x Audio Jack (combo Line-out + Mic-in) / 1 x 8bit GPIO terminal block / 4 x RS232 / 1 x DisplayPort 1.2 / 1 x 2-pin remote power on/off / 4 x USB 3.0 / 1 x HDMI 1.4
	EXPANSION SLOT	Wireless: M.2 2230 E key (PCIe, USB)
	STORAGE	1 x SATA 2.5" HDD / SSD bay
	STEREO SPEAKER	2 x 2W

POWER REQUIREMENT	OS SUPPORT	Windows® 10 enterprise 1703
	WATCHDOG TIMER	1~255 steps by software program
	POWER INPUT	DC-in 8~24V
	POWER ADAPTER	AC to DC / DC19V / 3.4A / 65W adapter
MECHANICAL	MOUNTING	VESA 75/100mm / Panel Mount
	DIMENSIONS (W X D X H)	235.6 x 386.2 x 83mm
	WEIGHT	TBD
ENVIRONMENTAL	OPERATING TEMPERATURE	-20~55°C (-4 ~ 131°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 / 2Grms @with SSD, follow IEC 60068-2-64
	SHOCK RESISTANCE	Operating 10 G peak acceleration (11 ms duration) / follow IEC 60068-2-27
	EMC	CE / FCC Class B
	FRONT PANEL PROTECTION	IP65 Compliant

# Quick Installation Guide

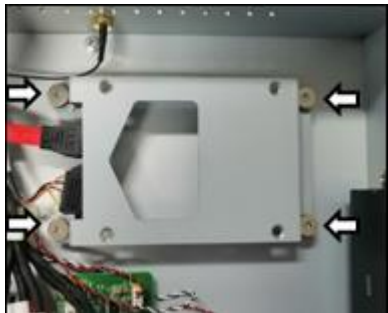


Remove 10pcs rear cover screws.

(Torque 4.5 +/-0.5 Kgf-cm)



Open rear cover



Disassemble the HDD bracket.

(Torque 4.5 +/-0.5 Kgf-cm)



Install HDD with the screws in AK.

(Torque 4.5 +/-0.5 Kgf-cm)



Install HDD bracket and connect the cables.

(Torque 4.5 +/-0.5 Kgf-cm)



Install SODIMMs



Install antennas in rear cover (option).

(Torque 4.5 +/-0.5 Kgf-cm)



Install WIFI card and connect the antennas. (option)

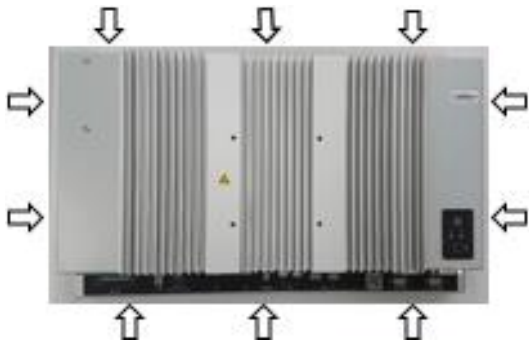
(Torque 4.5 +/-0.5 Kgf-cm)

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Connect LVDS cable, backlight cable and TP cable before secure the rear cover



Secure 10pcs rear cover screws.

(Torque 4.5 +/-0.5 Kgf-cm)

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[Note] need manually install drivers

Please check the latest drivers on MiTAC official website

<http://www.mitacmct.com/IndustrialPanelPC=P156-11KS=P156-11KS=downloads=EN>

# MITAC Embedded System

## P156-11KS

### BIOS Specifiction

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## MAIN PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>BIOS Information</b> BIOS Vender American Megatrends Core Version 5.12 Compliancy UEFI 2.6 ; PI 1.4 BIOS Version D7760A01 Build Date 04/21/2017  ME FW Version 11.8.50.3399  <b>Processor Information</b> Intel(R) CORE(TM) i5-7300U CPU @ 2.60GHz  <b>Memory Information</b> Total Memory 32768 MB Memory Frequency 2133 MHz  <b>SATA Devices</b> SATA1 Empty MSATA Empty  System Date [Www mm/dd/yyyy] System Time [hh:mm:ss]					<b>Item help</b>          →←: 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	<b>BIOS Vender</b>
Default Value	AMI Megatrends
Comment	This field is not selectable. There is no help text associated with it.

Field Name	<b>Core Version</b>
Default Value	5.12
Comment	This field is not selectable. There is no help text associated with it.

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

Field Name	<b>BIOS Version</b>
Default Value	Display the version of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

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

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

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

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

Field Name	<b>Memory Frequency</b>
Value	Display the installed memory frequency.
Comment	This field is not selectable. There is no help text associated with it.

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

Field Name	<b>MSATA</b>
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	<b>System Date</b>
Default Value	[Www mm/dd/yyyy]
Possible Value	Www : Mon/Tue/Wed/Thu/Fri/Sat/Sun mm : 1-12 dd : 1-31 yyyy : 1998-9999
Help	Set the Date. Use Tab to switch between Date elements.

Field Name	<b>System Time</b>
Default Value	[hh :mm :ss]
Possible Value	hh : 0-23 mm : 0-59 ss : 0-59
Help	Set the Time. Use Tab to switch between Time elements.

**ADVANCED PAGE**

Main	Advanced	Chipset	Security	Boot	Save & Exit
<div> ▶ CPU Configuration </div> <div> ▶ Trusted Computing </div> <div> ▶ ACPI Settings </div> <div> ▶ SMART Settings </div> <div> ▶ Super IO Configuration </div> <div> ▶ Hardware Monitor </div> <div> ▶ S5 RTC Wake Settings </div> <div> ▶ Network Stack Configuration </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 &amp; Reset  ESC: Exit </div>
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Field Name	<b>CPU Configuration</b>
Help	CPU Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

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

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

Field Name	<b>Hardware Monitor</b>
Help	Monitor hardware status
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

## CPU CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>CPU Configuration</b>					
Type	Intel(R) Core(TM) CPU i5-7300U @ 2.60 GHz				
ID	0x806E9				
Speed	2700 MHz				
L1 Data Cache	32 KB x 2				
L1 Code Cache	32 KB x 2				
L2 Cache	256 KB x 2				
L3 Cache	3MB				
L4 Cache	N/A				
VMX	Supported				
SMX/TXT	Supported				
Hardware Prefetcher	[Enabled]				
Adjacent Cache Line Prefetch	[Enabled]				
Active Processor Cores	[All]				
Hyper-Threading	[Enabled]				
Intel Trusted Execution Technology	[Disabled]				
					<b>Item</b> <b>help</b>  →←: 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	<b>Type</b>
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with it.

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

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

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

Field Name	<b>L1 Code Cache</b>
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Default Value	L1 Code Cache Size
Comment	This field is not selectable. There is no help text associated with it.

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

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

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

Field Name	<b>VMX</b>
Default Value	VMX Supported or Not
Comment	This field is not selectable. There is no help text associated with it.

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

Field Name	<b>Hardware Prefetcher</b>
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	To turn on/off the MLC streamer prefetcher.

Field Name	<b>Adjacent Cache Line Prefetch</b>
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	To turn on/off the prefetching of adjacent cache lines.

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

Field Name	<b>Hyper-Threading</b>
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).

Field Name	<b>Intel Trusted Execution Technology</b>
Default Value	[Disabled]
Possible Value	Enabled Disabled



Help	Enables utilization of additional hardware capabilities provided by Intel (R) Trusted Execution Technology. Changes require a full power cycle to take effect.
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## TRUSTED COMPUTING (OPTIONAL)

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>TPM20 Device Found</b> <b>Vender : NTC</b> <b>Firmware Version: 1.3</b>  Security Device Support [Enable] Pending operation [None] TPM2.0 UEFI Spec Version [TCG_2]					<b>Item help</b>  →←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt <b>F1: General Help</b> <b>F2: Previous Values</b> <b>F3: Optimized Defaults</b> <b>F4: Save &amp; Reset</b> <b>ESC: Exit</b>
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Field Name	<b>Security Device SUPPORT</b>
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	<b>Pending operation</b>
Default Value	[None]
Possible Value	None TPM Clear
Help	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.

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

## ACPI SETTINGS

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>ACPI Settings</b>  Enable ACPI Auto Configuration [Disabled]  Enable Hibernation [Enabled] ACPI Sleep State [S3 (Suspend to RAM)]					<b>Item help</b>  →←: 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	<b>Enable ACPI Auto Configuration</b>
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enables or Disables BIOS ACPI Auto Configuration.

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

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

## SMART SETTINGS

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

## SUPER IO CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit
SIO Configuration					Item help
▶ Serial Port 1 Configuration ▶ Serial Port 2 Configuration ▶ Serial Port 3 Configuration ▶ Serial Port 4 Configuration					→←: 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	Serial Port 1 Configuration
Help	Set Parameters of Port 1 (COMA)
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

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

## Serial Port 1 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>Serial Port 1 Configuration</b>					
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>Serial Port</p> <p>Device Settings</p> <p>Change Settings</p> </div> <div style="width: 50%; text-align: right;"> <p>[Enabled]</p> <p>IO=3E8h; IRQ=7;</p> <p>[Auto]</p> </div> </div>					<div style="text-align: center; border-bottom: 1px solid black; padding-bottom: 5px;"> <b>Item    help</b> </div> <p>→←: Select Screen  ↑ ↓ : Select Item  Enter: Select  +/- : Change Opt  F1: General Help  F2: Previous Values  F3: Optimized Defaults  F4: Save &amp; Reset  ESC: Exit</p>
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Field Name	<b>Serial Port</b>
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port(COM)

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

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

## Serial Port 2 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>Serial Port 2 Configuration</b>					
<b>Serial Port</b> [Enabled] <b>Device Settings</b> IO=2E8h; IRQ=5;  <b>Change Settings</b> [Auto] <b>Mode Configuration</b> [3T/5R RS232]					<b>Item help</b>  →←: 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	<b>Serial Port</b>
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable or Disable Serial Port(COM)

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

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

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

## Serial Port 3 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
Serial Port 3 Configuration					Item help
Serial Port				[Enabled]	→←: Select Screen
Device Settings				IO=3F8h; IRQ=4;	↑ ↓ : Select Item
Change Settings				[Auto]	Enter: Select
Version 2.18.1264. Copyright (C) 2017 American Megatrends, Inc.					
→←: Select Screen					
↑ ↓ : Select Item					
Enter: Select					
+/- : Change Opt					
F1: General Help					
F2: Previous Values					
F3: Optimized Defaults					
F4: Save & Reset					
ESC: Exit					

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

Field Name	<b>Device Settings</b>
Default Value	Device Super IO COM3 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

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



## Serial Port 4 Configuration

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

Field Name	<b>Device Settings</b>
Default Value	Device Super IO COM4 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

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

## HARDWARE MONITOR

Main	Advanced	Chipset	Security	Boot	Save & Exit
PC Health Status					Item help
CPU temperature					→←: Select Screen
CPU VR temperature					↑↓: Select Item
DIMM temperature					Enter: Select
Fan Speed					+/- : Change Opt
1V StandBy					F1: General Help
CPU Vcore					F2: Previous Values
System Memory					F3: Optimized Defaults
+12V StandBy					F4: Save & Reset
					ESC: Exit
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## S5 RTC WAKE SETTINGS

Main	Advanced	Chipset	Security	Boot	Save & Exit
Wake system from S5 [Disabled]					Item help
Wake up hour 0					
Wake up minute 0					
Wake up second 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	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled Fixed Time
Help	Enabler or disable System wake on alarm event, Select FixedTime, system will wake on the hr::min::sec specified.

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

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

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

## NETWORK STACK CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit
<div> <div>Network stack</div> <div>Ipv4 PXE Support</div> <div>Ipv6 PXE Support</div> </div> <div> <div>[Disabled]</div> <div>[Disabled]</div> <div>[Disabled]</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 &amp; Reset  ESC: Exit </div>
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Field Name	<b>Network stack</b>
Default Value	[Disabled]
Possible Value	Disabled (Restore non-Windows 8 Default) Enabled
Help	Enable/Disable UEFI Network stack.

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

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

## CHIPSET PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit
<div>▶ System Agent (SA) Configuration</div> <div>▶ PCH-IO Configuration</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 &amp; Reset</div> <div>ESC: Exit</div>		
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Field Name	<b>System Agent (SA) Configuration</b>
Help	System Agent (SA) Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

## SYSTEM AGENT (SA) CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>System Agent (SA) Configuration</b>  ▶ Memory Configuration ▶ Graphics Configuration					<b>Item help</b>  →←: 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	<b>Memory Configuration</b>
Help	Memory Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	<b>Graphics Configuration</b>
Help	Graphics Configuration
Comment	Press Enter when selected to go into the associated Sub-Menu.

## Memory Configuration

Main   Advanced <b>Chipset</b> Boot   Security   Save & Exit		
<b>Memory Configuration</b>		<b>Item   help</b>
Memory Frequency	2133 Mhz	→←: Select Screen
DIMM#1	16384 MB (DDR4)	↑↓: Select Item
DIMM#2	16384 MB (DDR4)	Enter: Select
		+/- : Change Opt
		F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Reset
		ESC: Exit
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Field Name	<b>Memory Frequency</b>
Help	Memory speed
Comment	This field is not selectable. There is no help text associated with it.

Field Name	<b>DIMM#[1:2]</b>
Help	Memory in the DIMM.
Comment	This field is not selectable. There is no help text associated with it.

## Graphics Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>Graphics Configuration</b>					
DVMT Pre-Allocated [32M] DVMT Total Gfx Mem [256M]					<b>Item help</b>  →←: 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	<b>DVMT Pre-Allocated</b>
Default Value	[32M]
Possible Value	32M / 64M / 4M/ 8M/ 12M/ 16M/ 20M/ 24M/ 28M/ (32M/F7)/ 36M/ 40M/ 44M/ 48M/ 52M/ 56M/ 60M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

Field Name	<b>DVMT Total Gfx Mem</b>
Default Value	[256M]
Possible Value	128MB / 256MB / MAX
Help	Select DVMT5.0 Total Graphic Memory size used by the Internal Graphics Device.



## PCH-IO CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit
<b>PCH-IO Configuration</b>					
<b>► HD Audio Configuration</b>  DeepSx Power Policies [Disabled] Wake On LAN [Enabled] State After G3 [S5 State]					<b>Item help</b>  →←: 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	<b>HD Audio Configuration</b>
Help	HD Audio Subsystem Configuration Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	<b>Wake On LAN</b>
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enabled/Disabled integrated LAN to wake the system.

Field Name	<b>State After G3</b>
Default Value	[S5 State]
Possible Value	S0 State S5 State
Help	Specify what state to go to when power is re-applied after a power failure (G3 state).

## HD Audio Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit
<b>HD Audio Subsystem Configuration Settings</b>					
HD Audio				[Auto]	
				<b>Item help</b>	
				→←: 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	<b>HD Audio</b>
Value	[Auto]
Possible Value	Auto / Enable / Disable
Help	Control Detection of HD-Audio device. Disabled = HDA will be unconditionally disabled Enable = HDA will be unconditionally enabled Auto = HDA will be enabled if present, disabled otherwise.

## SECURITY PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit
<div><div><div>Password Description</div><div>If Only the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.</div><div>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..</div><div>The password length must be in the following range:</div><div><div>Minimum length</div><div>Maximum length</div><div>3</div><div>20</div></div><div><div>Administrator Password</div><div>User Password</div></div><div>HDD Security Configuration:</div><div>HDD Security drive</div><div><div>► Secure Boot</div><div>► Secure Flash Update</div></div></div></div>				<div><div>Item</div><div>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 &amp; Reset</div><div>ESC: Exit</div></div>	

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Field Name	<b>Administrator Password</b>
Help	Set Administrator Password

Field Name	<b>User Password</b>
Help	Set User Password.

Field Name	<b>HDD Security drive</b>
Help	HDD Security Configuration for selected drive

Comment	Press Enter when selected to go into the associated Sub-Menu.
---------	---

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

Field Name	<b>Secure Flash Update</b>
Help	Secure Flash Update support
Comment	Press Enter when selected to go into the associated Sub-Menu.

## HDD SECURITY

Main	Advanced	Chipset	Security	Boot	Save & Exit
<div>HDD Password Description :</div> <div>Allows Access to Set, Modify and Clear HardDisk User and Master Passwords. User Password need to be installed for Enabling Security. Master Password can be Modified only when successfully unlocked with Master Password in POST. If the 'Set HDD Password' option is grayed out, do power cycle to enable the option again.</div> <div>HDD PASSWORD CONFIGURATION:</div> <div><div>Security Supported : Yes</div><div>Security Enabled : No</div><div>Security Locked : No</div><div>Security Frozen : No</div><div>HDD User Pwd Status : NOT INSTALLED</div><div>HDD Master Pwd Status : INSTALLED</div><div>Set User Password</div></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 &amp; Reset</div> <div>ESC: Exit</div>	
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Field Name	Set User Password
Help	Set HDD User Password. *** Advisable to Power Cycle System after Setting Hard Disk Passwords ***.Discard or Save changes option in setup does not have any impact on HDD when password is set or removed. If the 'Set HDD User Password' option is grayed out, do power cycle to enable the option again

## SECURE BOOT

Main	Advanced	Chipset	Security	Boot	Save & Exit
System Mode				Setup	Item help
Vender keys				Not Modified	
Secure Boot Enable				[Disabled] Not Active	→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Secure Boot Mode				[Custom]	
▶ Restore Factory Keys					
▶ Reset To Setup Mode					
▶ Key Management					
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Field Name	<b>Secure Boot Enable</b>
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Secure Boot activated when Platform Key(PK) is enrolled, System mode is User/Deployed, and CSM function is disabled

Field Name	<b>Secure Boot Mode</b>
Default Value	[Custom]
Possible Value	Standard Custom
Help	Customizable Secure Boot mode: In Custom mode Secure Boot Policy variables can be configured by a physically present user without full authentication

Field Name	<b>Key Management</b>
Help	Enables expert users to modify Secure Boot Policy variables without full authentication
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	<b>Restore Factory Keys</b>
Help	Force System to User Mode. Configure NVRAM to contain OEM-defined factory default Secure Boot keys

Field Name	<b>Reset to Setup Mode</b>
Help	Delete NVRAM content of all UEFI Secure Boot key databases

## Key Management

Main	Advanced	Chipset	Security	Boot	Save & Exit																												
<div>Factory Key Provision<div>[Disabled]</div><div><div>▶ Restore Factory Keys</div><div>▶ Reset To Setup Mode</div><div>▶ Export Secure Boot variables</div><div>▶ Enroll Efi Image</div></div><div>Device Guard ready</div><div><div>▶ Remove 'UEFI CA' from DB</div><div>▶ Restore DB defaults</div></div><table><thead><tr><th>Secure Boot variable</th><th>Size</th><th>Key#</th><th>Key Source</th></tr></thead><tbody><tr><td>▶ Platform Key(PK)</td><td>0</td><td>0</td><td>No Key</td></tr><tr><td>▶ Key Exchange Key</td><td>0</td><td>0</td><td>No Key</td></tr><tr><td>▶ Authorized Signatures</td><td>0</td><td>0</td><td>No Key</td></tr><tr><td>▶ Forbidden Signatures</td><td>0</td><td>0</td><td>No Key</td></tr><tr><td>▶ Authorized TimeStamps</td><td>0</td><td>0</td><td>No Key</td></tr><tr><td>▶ OsRecovery Signatures</td><td>0</td><td>0</td><td>No Key</td></tr></tbody></table></div>					Secure Boot variable	Size	Key#	Key Source	▶ Platform Key(PK)	0	0	No Key	▶ Key Exchange Key	0	0	No Key	▶ Authorized Signatures	0	0	No Key	▶ Forbidden Signatures	0	0	No Key	▶ Authorized TimeStamps	0	0	No Key	▶ OsRecovery Signatures	0	0	No Key	<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 &amp; Reset</div> <div>ESC: Exit</div>
Secure Boot variable	Size	Key#	Key Source																														
▶ Platform Key(PK)	0	0	No Key																														
▶ Key Exchange Key	0	0	No Key																														
▶ Authorized Signatures	0	0	No Key																														
▶ Forbidden Signatures	0	0	No Key																														
▶ Authorized TimeStamps	0	0	No Key																														
▶ OsRecovery Signatures	0	0	No Key																														
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Field Name	<b>Factory Key Provision</b>
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Provision factory default keys on next re-boot only when System in Setup Mode

Field Name	<b>Restore Factory Keys</b>
Help	Force System to User Mode. Configure NVRAM to contain OEM-defined factory default Secure Boot keys

Field Name	<b>Reset to Setup Mode</b>
Help	Delete NVRAM content of all UEFI Secure Boot key databases

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

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

Field Name	<b>Remove 'UEFI CA' from DB</b>
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Help	Device Guard ready system must not list 'Microsoft UEFI CA' Certificate in Authorized Signature database (db)
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Field Name	<b>Remove DB defaults</b>
Help	Restore DB variable to factory defaults

Field Name	<b>Platform Key (PK)</b>
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER encoded) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHA256,384,512 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu “Key Management”.

Field Name	<b>Key Exchange Key</b>
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER encoded) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHA256,384,512 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	<b>Authorized Signature</b>
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER encoded) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHA256,384,512 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	<b>Forbidden Signature</b>
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER encoded) c)EFI_CERT_RSA2048 (bin)



	d)EFI_CERT_SHA256,384,512 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	<b>Authorized TimeStamps</b>
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER encoded) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHA256,384,512 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	<b>OsRecovery Signatures</b>
Default Value	Size:0, Key#:0, Key source: No Key
Help	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER encoded) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHA256,384,512 2.Authenticated UEFI Variable 3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
comment	Press Enter when selected to go into the associated Sub-Menu.

## SECURE FLASH UPDATE

Main	Advanced	Chipset	Security	Boot	Save & Exit
<p>► Path for ROM Image</p> <p>Notice :</p> <p>ROM Image must in the root folder of storage device.</p> <p>File name must match with current BIOS project.</p>					<p><b>Item help</b></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 &amp; Reset</p> <p>ESC: Exit</p>
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Field Name	<b>Path for ROM Image</b>
Help	Enter the path to the Secure flash option

## **BOOT PAGE**

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

Field Name	<b>Bootup NumLock State</b>
Default Value	[On]
Possible Value	On Off
Help	Select the keyboard NumLock state

Field Name	<b>Boot Mode Select</b>
Default Value	[UEFI]
Possible Value	LEGACY ( <b>Support Skylake series for Win7</b> ) UEFI
Help	Select boot mode LEGACY/UEFI

Field Name	<b>Boot Option #1</b>
Default Value	[USB Floppy]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

Field Name	<b>Boot Option #2</b>
Default Value	[USB CD/DVD]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

Field Name	<b>Boot Option #3</b>
Default Value	[Hard Disk]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

Field Name	<b>Boot Option #4</b>
Default Value	[USB Key]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

Field Name	<b>Boot Option #5</b>
Default Value	[USB Hard Disk]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

Field Name	<b>Boot Option #6</b>
Default Value	[USB Lan]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

Field Name	<b>Boot Option #7</b>
Default Value	[Network]
Possible Value	Hard Disk, USB Hard Disk, USB CD/DVD, USB Key, USB Floppy , USB Lan, Network
Help	Sets the system boot order

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

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

(LIST BOOT DEVICE TYPE) DRIVE BBS PRIORITIES

Main	Advanced	Chipset	Security	Boot	Save & Exit
Boot Option #1 [Boot Device Name 1]					<b>Item help</b>  →←: Select Screen ↑↓: Select Item  Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
Boot Option #2 [Boot Device Name 2]					
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Field Name	<b>Boot Option #1</b>
Default Value	
Possible Value	Boot Device Name 1 of this type
Help	Sets the system boot order

Field Name	<b>Boot Option #2</b>
Default Value	
Possible Value	Boot Device Name 2 of this type
Help	Sets the system boot order

## SAVE & EXIT PAGE

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Save Options  Discard Changes and Exit Save Changes and Reset Discard Changes and Reset  Restore Defaults						<b>Item help</b>
						→←: 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	<b>Discard Changes and Exit</b>
Help	Exit system setup with without saving any changes.

Field Name	<b>Save Changes and Reset</b>
Help	Reset the system after saving the changes.

Field Name	<b>Discard Changes and Rest</b>
Help	Reset system setup without saving any changes.

Field Name	<b>Restore Defaults</b>
Help	Restore/Load Legacy Default values for all the setup options.

**RECOVERY PAGE (ACTIVE FOR SECURE FLASH UPDATE ONLY)**

Main	Advanced	Chipset	Security	Boot	Save & Exit	Recovery
Please select block you want to update  <b>Reset NVRAM</b> [Disabled]  ▶ Process with flash update						<b>Item help</b>
						→←: 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	<b>Reset NVRAM</b>
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Set this option to reset NVRAM to default values

Field Name	<b>Process with flash update</b>
Help	Select this to start flash update