MiTAC Panel PC System

P100-10AS
Product Guide

Front View

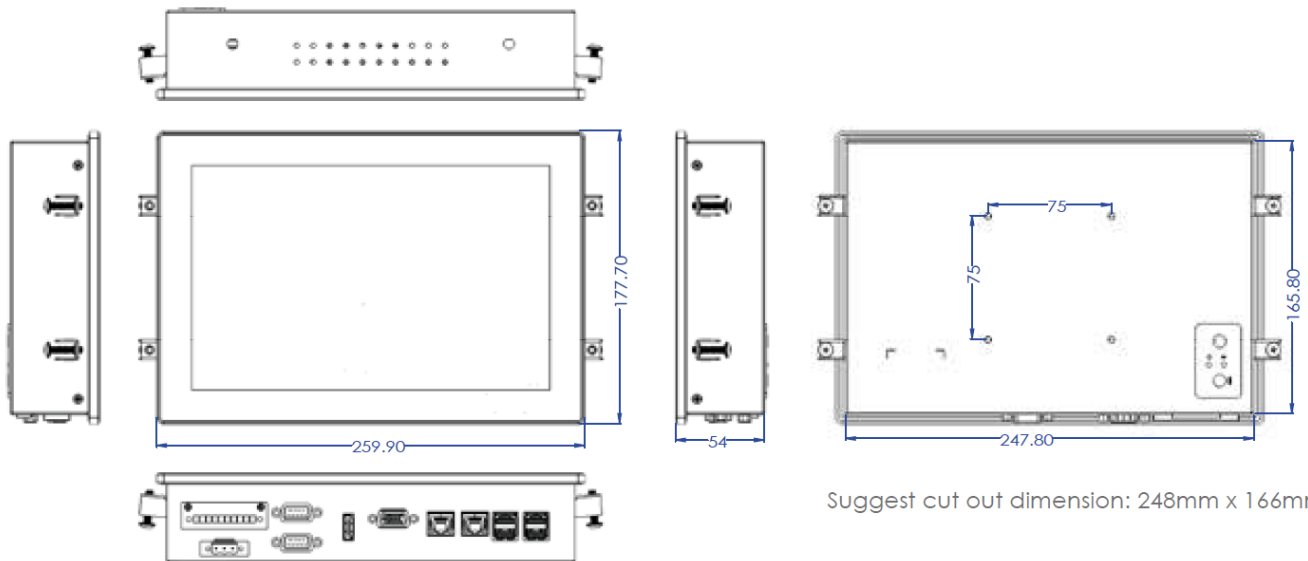# Rear View

Bottom View

❶ Power	❼ VGA
❷ Reset	❽ Giga LAN
❸ 8 bit GPIO	❾ Giga LAN
❹ DC-in	❿ USB 3.0
❺ COM	⓫ USB 3.0
❻ HDMI	

Mechanical Dimension

P100-10AS dimension: 259.8mm x 177.8mm x 53.5mm

Suggest cut out dimension: 248mm x 166mm

Product Specifications

MECHANICAL	MOUNTING	VESA 75mm / Stand	
	DIMENSIONS (W X D X H)	7.0" x 10.2" x 1.8" (178 x 260 x 54 mm)	
	WEIGHT	1.65kg	
LCD	DISPLAY TYPE	10.1" TFT-LCD	
	MAX. RESOLUTION	1280 x 800	
	MAX. COLORS	16.7M (8 bit / color)	
	LUMINANCE (cd/m2)	400	
	VIEWING ANGLE (H/V)	170° / 170°	
	LED BACKLIGHT LIFETIME (hrs)	30,000	
	HIGH BRIGHTNESS	Option	
TOUCH SCREEN	TYPE	P-CAP	
	TOUCH SCREEN	True-flat 10 points	
	AR/AG	Option	
SYSTEM	PROCESSOR	Intel® Apollo Lake-M N3350 / N4200 Processor	
	CHIPSET	Intel® SoC Integrated	
	SYSTEM MEMORY	DDR3L 1866 MHz / 1 x 204-pin SO-DIMM / Max. 8GB (Non-ECC)	
	ETHERNET	2 x Intel® I210-IT Giga LAN	
	I/O PORT	1 x 3-pin Phoenix type terminal block DC input / 1 x 8bit GPIO terminal block / 2 x COM (RS232 / RS422 / RS485) / 4 x USB 3.0 / 1 x VGA / 1 x HDMI 1.4	
	EXPANSION SLOT	M.2 2230 E key (PCIe, USB 2.0) / Mini PCIe Full size (PCIe / USB / SATA)	
	STORAGE	1 x SATA 2.5" HDD / SSD bay	
	STEREO SPEAKER	-	
	OS SUPPORT	Windows 10 64bit (UEFI only no legacy support) / Linux (support by request)	
	WATCHDOG TIMER	1~255 steps by software program	
POWER REQUIREMENT	POWER INPUT	DC-in 8~24V	
	POWER ADAPTER	AC to DC / DC19V / 3.4A / 65W adapter	
ENVIRONMENTAL	OPERATING TEMPERATURE	-10~50℃ (14 ~ 122°F)	
	STORAGE TEMPERATURE	-20 ~ 60°C (-4 ~ 140°F)	
	STORAGE HUMIDITY	10% ~ 95% @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 (2pcs Each sides)
(Torque 3.5 +/-0.5 Kgf-cm)

Remove rear cover

Install SODIMMs

Install 2.5" HDD/SSD and connect SATA & SATA Power cable(Torque 5.5 +/-0.5 Kgf-cm)

Remove the protection of thermal pad release paper before the assembly of Rear Cover

Secure Cover Screws

(Torque 3.5 +/-0.5 Kgf-cm)

[Note] need manually install drivers

Please check the latest drivers on MiTAC official website

http://www.mitacmct.com/IndustrialPanelPC=P100=P100-10AS=downloads=EN

MITAC Embedded System
P100-10AS
BIOS Specifiction

1. **MAIN PAGE**

Main	Advanced	Chipset	Security	Boot	Save & Exit

BIOS Information	**Item help**
BIOS Version D7740X01	
Build Date 02/02/2017	
Processor Information	
Genuine Intel® CPU @ 1.50GHz	
SATA Devices	→←: Select Screen
SATA Port0	↑↓: Select Item
[Not Installed]	Enter: Select
SATA Port1	+/- : Change Opt
[Not Installed]	F1: General Help
	F2: Previous Values
	F3: Optimized Defaults
Memory Information	F4: Save & Reset
Total Memory 8192 MB	ESC: Exit
Memory speed 1600MHz	
System Date [Mon, mm/dd/yyyy]	
System Time [hh:mm:ss]	

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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
Default Value	Display build 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	SATA Port 0
Value	Display the installed SATA port 0 devices.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA Port 1
Value	Display the installed SATA port 0 devices.
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 Speed
Default Value	Display the installed memory speed
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. Default Ranges: Year: 2005-2099 Months: 1-12 Days: dependent on month

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	Security	Boot	Save & Exit

LAN1	[Enable]	**Item help**
LAN2	[Enable]	
Mini PCIe	[Enable]	
M.2	[Enable]	
▶Intel(R) I210 Gigabit Network Connection – 00:22:4D:4D:…		
▶Intel(R) I210 Gigabit Network Connection – 00:22:4D:4D:…		
▶Driver Health		
▶Trusted Computing		
▶SMART settings		
▶NCT6116D Super IO Configuration		
▶S5 RTC Wake Settings		
▶CPU Configuration		**→←: Select Screen**
▶Network Stack Configuration		**↑↓: Select Item**
▶Platform Trust Technology		**Enter: Select**
		+/- : Change Opt
		F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Reset
		ESC: Exit

Field Name	**LAN1**
Default Value	Enabled
Possible Value	Disabled Enabled
Help	Enable/Disable LAN Device

Field Name	**LAN2**
Default Value	Enabled
Possible Value	Disabled Enabled
Help	Enable/Disable LAN Device

Field Name	**Mini PCIe**
Default Value	Enabled
Possible Value	Disabled Enabled
Help	Enable/Disable mini PCIE

Field Name	**M.2**

Default Value	Enabled
Possible Value	Disabled
	Enabled
Help	Enable/Disable M.2

Field Name	**Intel(R) I210 Gigabit Network Connection – 00:22:4D:4D:00:01**
Help	Configure Gigabit Ethernet device parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Intel(R) I210 Gigabit Network Connection – 00:22:4D:4D:00:02**
Help	Configure Gigabit Ethernet device parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Driver Health**
Help	Provides Health Status for the Drivers/Controllers
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	**SMART Settings**
Help	System SMART settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**NCT6104D Super IO Configuration**
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

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

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

Field Name	**Platform Trust Technology**
Help	Platform Trust Technology
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.1 INTEL(R) I210 GIGABIT NETWORK CONNECTION – 00:22:4D:4D:00:01

Main	**Advanced**	Chipset	Security	Boot	Save & Exit

▶NIC Configuration

Item   help

Blink LEDs   0

UEFI Driver   Inter(R) PRO/1000 7.3…

Adapter PBA   000300-000

Device Name   Intel(R) I210 Gigabit…

Chip Type   Intel i210   **→←: Select Screen**

PCI Device ID   1533   **↑↓: Select Item**

PCI Address   01:00:00   **Enter: Select**

                                                                   +/- : Change Opt

Link Status   [Disconnected]   **F1: General Help**

                                                                   F2: Previous Values

MAC Address   00:22:4D:4D:00:01   **F3: Optimized Defaults**

Virtual MAC Address   00:00:00:00:00:00   **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	Identify the physical network port by blinking the associated LED.

2.3.1 NIC CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit

Item   help

Link Speed   [Auto Negotiated]

Wake On LAN   [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	Link Speed
Default Value	Auto Negotiated
Possible Value	Auto Negotiated
	10Mbps Half
	10 Mbps Full
	100 Mbps Half
	100 Mbps Full

Help	Specifies the port speed used for the selected boot protocol.

Field Name	**Wake On LAN**
Default Value	Enabled
Possible Value	Disabled
	Enabled
Help	Enables the server to be powered on using an in-band magic packet.

2.2 INTEL(R) I210 GIGABIT NETWORK CONNECTION – 00:22:4D:4D:00:02

Main	Advanced	Chipset	Security	Boot	Save & Exit

▶NIC Configuration

Blink LEDs   0

		Item help
UEFI Driver	Inter(R) PRO/1000 7.3…	
Adapter PBA	000300-000	
Device Name	Intel(R) I210 Gigabit…	
Chip Type	Intel i210	→←: Select Screen
PCI Device ID	1533	↑↓: Select Item
PCI Address	01:00:00	Enter: Select
		+/- : Change Opt
Link Status	[Disconnected]	F1: General Help
		F2: Previous Values
MAC Address	00:22:4D:4D:00:02	F3: Optimized Defaults
Virtual MAC Address	00:00:00:00:00:00	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	Identify the physical network port by blinking the associated LED.

NIC CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit	
						Item help
Link Speed			[Auto Negotiated]			
Wake On LAN			[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	**Link Speed**
Default Value	Auto Negotiated
Possible Value	Auto Negotiated
	10Mbps Half
	10 Mbps Full
	100 Mbps Half
	100 Mbps Full

Help	Specifies the port speed used for the selected boot protocol.

Field Name	**Wake On LAN**
Default Value	Enabled
Possible Value	Disabled Enabled
Help	Enables the server to be powered on using an in-band magic packet.

2.3 DRIVER HEALTH

Main	Advanced	Chipset	Security	Boot	Save & Exit

▶Intel(R) PRO/1000 7.3.20 PCI-E   Healthy

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) PRO/1000 7.3.20 PCI-E
Help	Provides Health Status for the Drivers/Controllers
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.3.1　INTEL(R) PRO/1000 7.3.20 PCI-E

Main	Advanced	Chipset	Security	Boot	Save & Exit

Controller 73a9fd58 Child 0　　　　　　　　　　Healthy Intel(R) I210 Gigabit Network Connection Healthy Controller 73a9f558 Child 0　　　　　　　　　　Healthy Intel(R) I210 Gigabit Network Connection Healthy	**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	**Controller 73a9fd58 Child 0**
Help	Provides Health Status for the Drivers/Controllers
Comment	Show driver/controller status

Field Name	**Intel(R) I210 Gigabit Network Connection**
Help	Provides Health Status for the Drivers/Controllers

Comment	Show driver/controller status

Field Name	**Controller 73a9f558 Child 0**
Help	Provides Health Status for the Drivers/Controllers
Comment	Show driver/controller status

Field Name	**Intel(R) I210 Gigabit Network Connection**
Help	Provides Health Status for the Drivers/Controllers
Comment	Show driver/controller status

2.4 TRUSTED COMPUTING

Main	Advanced	Chipset	Security	Boot	Save & Exit

Item   help

TPM20 Device Found

Vendor: INTC

Firmware Version: 3.0

Security Device Support   [Enable]

Active PCR banks   SHA-1, SHA256

Available PCR banks   SHA-1, SHA256

→←: Select Screen

Pending operation   [None]

↑↓: 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	Enabled

Possible Value	Disabled
	Enabled
Help	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

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

2.5 SMART SETTINGS

Main	Advanced	Chipset	Security	Boot	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.

2.6 NCT6116D SUPER IO CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit

NCT6116D Super IO Configuration

Item   help

Serial Port 1   [Enabled]

Serial Port 2   [Enabled]

Serial Port 3   [Enabled]

→←: Select Screen

Serial Port 4   [Enabled]

↑↓: Select Item

   Serial Port Mode   [3T/5R RS-232]

Enter: Select

   SLEW Rate   [1.5Mbps]

+/- : 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
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Serial Port (COM)

Field Name	Serial Port 2
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Serial Port (COM)

Field Name	Serial Port 3
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Serial Port (COM)

Field Name	Serial Port 4
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Serial Port (COM)

Field Name	Serial Port Mode
Default Value	[3T/5R RS-232]
Possible Value	1T/1R RS-422 3T/5R RS-232 1T/1R RS-485 TX ENABLE Low Active 1T/1R RS-485 with termination resistor TX ENABLE Low Active

	1T/1R RS-422 with termination resistor Disabled
Help	Enable or Disable Serial Port (COM)

Field Name	SLEW Rate
Default Value	[1.5Mbps]
Possible Value	256Kbps 1. 5Mbps
Help	Select SLEW rate to 1.5Mbps or 256Kbps

2.7 S5 RTC WAKE SETTINGS(NO FUNCTION WHEN DEEPSX POWER POLICIES ENABLED)

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
	Dynamic Time
Help	Enabler or disable System wake on alarm event, Select FixedTime, system will wake on the hr::min::sec specified. Select DynamicTime , system will wake on the current time + Increase minute (s)

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

Field Name	Wake up minute increase(Show when Wake system from S5 set to Dynamic Time)
Default Value	1
Possible Value	1-5

Help	1 - 5

2.8 CPU CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit

CPU Configuration

Item help

Intel(R) Core(TM) CPU [CPU NAME] @ [CPU Freq.] GHz

CPU Signature	406c3
Microcode Patch	33c
Max CPU Speed	1600 MHz
Min CPU Speed	480 MHz
Processor Cores	2
Intel HT Technology	Not Supported
Intel VT-x Technology	Supported
L1 Data Cache	24 KB x 2
L1 Code Cache	32 KB x 2
L2 Cache	1024 KB x 1
L3 Cache	Not Present
64-bit	Supported

Intel Virtualization Technology	[Enabled]
EIST	[Enable]
Turbo mode	[Enable]

→←: Select Screen

↑↓: Select Item

Enter: Select

+/- : Change Opt

F1: General Help

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

2.9 NETWORK STACK CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit	

	Item help
Network stack [Enabled] Ipv4 PXE Support [Enabled] Ipv6 PXE Support [Enabled]	
	→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit

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Field Name	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 IPV6 PXE boot option will not be created.

2.10 PLATFROM TRUST TECHNOLOGY

Main	Advanced	Device	Chipset	Security	Boot	Save & Exit

TPM Configuration

Item   help

fTPM   [Enabled]

→←: Select Screen

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Field Name	Compatibility Support Module Configuration

Field Name	fTPM Support
Default Value	[Enabled]
Possible Value	Disabled/Enabled
Help	Enable/Disable fTPM

3. **CHIPSET**

Main	Advanced	Chipset	Security	Boot	Save & Exit

Restore AC Power Loss	[Power Off]	**Item help**
DeepSx Power Policies	[Disabled]	
Output Panel Type	[Disable]	
DVMT Pre-Allocated	[64M]	
DVMT Total Gfx Mem	[256MB]	
Wake On Lan	[Enable]	
OS Selection	[Windows]	

→←: 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	Restore AC Power State

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	DeepSx Power Policies
Default Value	Disabled
Possible Value	Disabled Enabled
Help	Configure the DeepSx Mode configuration.
Note	When enabled, "Wake On Lan" and "S5 RTC Wake Settings" are no function.

Field Name	Output Panel Type
Default Value	Disable
Possible Value	LVDS eDP Disabled
Help	Select Output Panel Type

Field Name	LVDS Interface Type
Default Value	8 bit-VESA Dual Channel
Possible Value	8 bit-VESA Single Channel 8 bit-VESA Dual Channel

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	6 bit-VESA Single Channel
	6 bit-VESA Dual Channel
Help	Sets LVDS connectivity.
Comment	This field only show when Output Panel Type set to LVDS

Field Name	LVDS Panel Type
Default Value	1920x1080
Possible Value	800x600
	1024x768
	1366x768
	1280x800
	1920x1080
Help	Select LVDS panel used by Internal Graphics Device by selecting the appropriate setup item.
Comment	This field only show when Output Panel Type set to LVDS

Field Name	DVMT Pre-Allocated
Default Value	[64M]
Possible Value	64M /96M /128M /160M /192M /224M /256M /288M /320M
	352M /384M /416M /448M /480M /512M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

Field Name	DVMT Total Gfx Mem
Default Value	[256MB]

Possible Value	128MB /256MB /Max
Help	Select DVMT 5.0 Total Graphic Memory size used by the Internal Graphics Device.

Field Name	Wake On Lan
Default Value	Enabled
Possible Value	Disabled Enabled
Help	Enable or Disable the Wake on Lan

Field Name	OS Selection
Default Value	Windows
Possible Value	Windows Intel Linux
Help	Select the target OS.

4. SECURITY

Main	Advanced	Chipset	Security	Boot	Save & Exit

Password Description

If Only the Administrator's password is set

then this only limits access to Setup and is

only asked for when entering Setup

If ONLY the User's password is set, then this

Is a power on password and must be entered to

boot or enter Setup. In Setup the User will.

have Administrator rights.

The password length must be

in the following range:

Minimum Length   3

Maximum Length   20

Setup Administrator Password

User Password

HDD Security Configuration

P0:Device Name

▶Secure Boot

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	Setup Administrator Password
Help	Set Administrator Password
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

Field Name	**P0: Device Name**
Help	HDD Security Configuration for selected drive
Comment	Press Enter when selected to go into the associated Sub-Menu.

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

2.11 HDD SECURITY CONFIGURATION

Main	Advanced	Chipset	Security	Boot	Save & Exit

HDD Password Description

Allow Access to Set, Modify and Clear

Hard Disk User and Master Password.

User Password need to be installed for

Enabling Security. Master Password can

Be Modified only when successfully unlocked

With Master Password in POST.

If the 'Set HDD Password' option is grayed out,

do power cycle to enable the option again.

HDD PASSWORD CONFIGURATION:

Security Supported	:	Yes
Security Enabled	:	No
Security Locked	:	No
Security Frozen	:	No
HDD User Pwd Status		NOT INSTALLED

Set User Password

Item   help

→←: Select Screen

↑↓: Select Item

Enter: Select

+/- : Change Opt

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Reset

ESC: Exit

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

2.12 SECURE BOOT MODE

Main	Advanced	Chipset	Security	Boot	Save & Exit

	Item help
System Mode Setup	
Vendor Keys Not Modified	
Secure Boot Enable [Enabled]	→←: Select Screen
	↑↓: Select Item
	Enter: Select
Secure Boot Mode [Standard]	+/- : Change Opt
▶Key Management	F1: General Help
	F2: Previous Values
	F3: Optimized Defaults

Field Name	Secure Boot Enable
Default Value	[Enabled]
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	Secure Boot Mode
Default Value	[Standard]
Possible Value	Standard / Custom
Help	Secure Boot Mode - Custom & Standard, Set UEFI Secure Boot Mode to STANDARD mode or CUSTOM mode, this change is effect after save. And after reset, the mode will return to STANDARD mode

Field Name	Key Management
Help	Enables experienced users to modify Secure Boot variables
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.13 KEY MANAGERMENT

Main	Advanced	Chipset	Security	Boot	Save & Exit

Provision Factory Default   [Disabled]

Item   help

▶Restorel Factory Keys

▶Enroll Efi Image

▶Export Secure Boot variables

Secure Boot variable | size| key#| key source

▶Platform Key(PK) | 0| 0| No Keys

▶Key Exchange Key | 0| 0| No Keys

▶Authorized Signatures | 0| 0| No Keys

▶Forbidden Signatures | 0| 0| No Keys

▶Authorized TimeStamps | 0| 0| No Keys

▶OsRecovery Signatures | 0| 0| No Keys

→←: Select Screen

↑↓: Select Item

Enter: Select

+/- : Change Opt

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Reset

ESC: Exit

Field Name	Provision Factory Default
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Provision factory default keys on next system re-boot while platform is in Setup Mode.

Field Name	Restore Factory Keys
Help	Reset the content of all UEFI Secure Boot key databases to their factory default values
Comment	

Field Name	Reset to Setup Mode
Help	Delete the content of all UEFI Secure Boot key databases. This puts the system in Setup Mode
Comment	

Field Name	Enroll Efi Image
Help	Allow the image to run in Secure Boot mode. Enroll SHA256 hash of an efi binary into Authorized Signature Database(db)
Comment	

Field Name	Export Secure Boot Variables
Help	Save NVRAM content of Secure Boot policy variables to the files

	(EFI_SIGNATURE_LIST data format) in root folder on a target file system device
Comment	

Field Name	Platform Key (PK) : 0 0 No Keys
Possible Value	Details Export Set New Delete
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: Default,External,Mixed,TestAMI

Field Name	Key Exchange Key : 0 0 No Keys
Possible Value	Details Export Set New Append Delete
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: Default,External,Mixed,TestAMI

Field Name	Authorized Signature : 0 0 No Keys
Possible Value	Details

	Export
	Set New
	Append
	Delete
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)\nKey Source: Default,External,Mixed,TestAMI

Field Name	Forbidden Signature : 0 0 No Keys
Possible Value	Details
	Export
	Set New
	Append
	Delete
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: Default,External,Mixed,TestAMI

Field Name	Authorized TimeStamps : 0 0 No Keys
Possible Value	Set New
	Append
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)\nKey Source: Default,External,Mixed,TestAMI

Field Name	OsRecovery Signatures: 0 0 No Keys
Possible Value	Set New Append
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)\nKey Source: Default,External,Mixed,TestAMI

5. **BOOT**

Boot mode select = UEFI

Main	Advanced	Chipset	Boot	Security	Save & Exit

Boot Configuration

        Setup Prompt Timeout   3

        Bootup NumLock State   [On]

        Fast Boot   [Enable]

FIXED BOOT ORDER Priorities

        Boot Option #1   [Hard Disk]

        Boot Option #2   [CD/DVD]

        Boot Option #3   [USB Hard DIsk]

        Boot Option #4   [USB CD/DVD]

        Boot Option #5   [USB Key]

        Boot Option #6   [USB Floppy]

        Boot Option #7   [USB Lan]

        Boot Option #8   [Network]

UEFI CD/DVD ROM Drive BBS Priorities

UEFI Hard Disk Drive BBS Priorities

UEFI NETWORK Drive BBS Priorities

UEFI USB CD/DVD ROM Drive BBS Priorities

UEFI USB Hard Disk Drive BBS Priorities

Item   help

→←: Select Screen

↑↓: Select Item

Enter: Select

+/- : Change Opt

F1: General Help

F2: Previous Values

F3: Optimized Defaults

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

Field Name	Boot NumLock State
Default Value	[On]
Possible Value	On

Off |
| Help | Select the keyboard NumLock state |

Field Name	Fast Boot
Default Value	[Enabled]
Possible Value	Enabled

Disabled |
| Help | Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options. |

Boot mode select = UEFI

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

Field Name	Boot Option #2
Default Value	[CD/DVD]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, USB Lan
Help	Set the system boot order

Field Name	Boot Option #3
Default Value	[USB Hard Disk]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, USB Lan
Help	Set the system boot order

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

Boot mode select = UEFI

Field Name	**Boot Option #5**
Default Value	[USB Key]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, USB Lan
Help	Set the system boot order

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

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

Field Name	**Boot Option #8**
Default Value	[Network]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, USB Lan
Help	Set the system boot order

6. **SAVE & EXIT**

Main	Advanced	Chipset	Security	Boot	Save & Exit

Save Options

Save Changes and Exit

Discard Changes and Exit

Save Changes and Reset

Discard Changes and Reset

Restore Defaults

Boot Override

Item   help

→←: Select Screen

↑↓: Select Item

Enter: Select

+/- : Change Opt

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Reset

ESC: Exit

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Field Name	Save Options

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

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

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

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

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