



# OXY5323A

3.5" SBC Form Factor Intel® Apollo Lake Processor



## Safety Information

### Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area.
- If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your local distributor.

### Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter any technical problems with the product, contact your local distributor

### Statement

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- All product specifications are subject to change without prior notice.

## Revision History

| Revision | Date (yyyy/mm/dd) | Changes                 |
|----------|-------------------|-------------------------|
| V1.0     | 2021/09/08        | First release           |
| V1.1     | 2022/02/14        | Add Standard Compliance |

## Packing List

| Item | Description                                 | Q'ty |
|------|---------------------------------------------|------|
| 1    | OXY5323A IEC-61850-3, IEEE-1613 1U Computer | 1    |
| 2    | Driver CD+ User's manual                    | 1    |



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

## Ordering information

| Model         | Description                                                                                                                                                                                                       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OXY5323A-01ET | Intel® Apollo Lake-I E3930, DDR3L 1866MHz, 1 x 204-pin SO-DIMM, Max. 8GB (Non-ECC), 2 x Intel® I210-IT Giga LAN, 4 x USB 3.0, 1 x HDMI 1.4, 1 x VGA, 2 x RJ-45, Normal Temperature: -20 to 70°C                   |
| OXY5323A-01UT | Intel® Apollo Lake-I E3930, DDR3L 1866MHz, 1 x 204-pin SO-DIMM, Max. 8GB (Non-ECC), 2 x Intel® I210-IT Giga LAN, 4 x USB 3.0, 1 x HDMI 1.4, 1 x VGA, 2 x RJ-45, Wide Temperature <b>(Optional*) : -40 to 85°C</b> |
| OXY5323A-02ET | Intel® Apollo Lake-M N3350, DDR3L 1866MHz, 1 x 204-pin SO-DIMM, Max. 8GB (Non-ECC), 2 x Intel® I210-IT Giga LAN, 4 x USB 3.0, 1 x HDMI 1.4, 1 x VGA, 2 x RJ-45, Normal Temperature: -20 to 70°C                   |
| OXY5323A-02UT | Intel® Apollo Lake-M N3350, DDR3L 1866MHz, 1 x 204-pin SO-DIMM, Max. 8GB (Non-ECC), 2 x Intel® I210-IT Giga LAN, 4 x USB 3.0, 1 x HDMI 1.4, 1 x VGA, 2 x RJ-45, Wide Temperature <b>(Optional*):-40 to 85°C</b>   |
| OXY5323A-03ET | Intel® Apollo Lake-M N4200, DDR3L 1866MHz, 1 x 204-pin SO-DIMM, Max. 8GB (Non-ECC), 2 x Intel® I210-IT Giga LAN, 4 x USB 3.0, 1 x HDMI 1.4, 1 x VGA, 2 x RJ-45, Normal Temperature: -20 to 70°C                   |
| OXY5323A-03UT | Intel® Apollo Lake-M N4200, DDR3L 1866MHz, 1 x 204-pin SO-DIMM, Max. 8GB (Non-ECC), 2 x Intel® I210-IT Giga LAN, 4 x USB 3.0, 1 x HDMI 1.4, 1 x VGA, 2 x RJ-45, Wide Temperature <b>(Optional*):-40 to 85°C</b>   |

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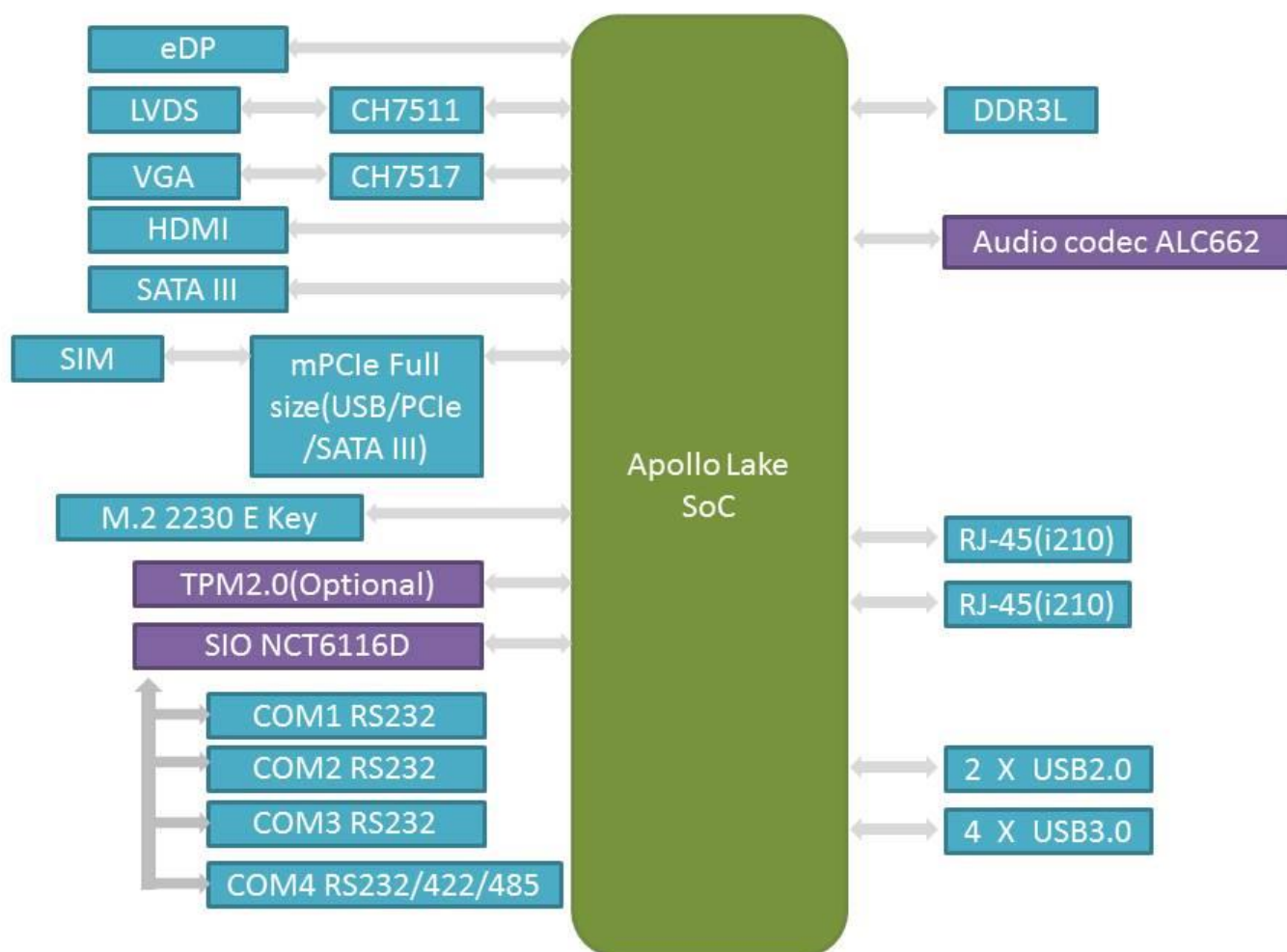
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## Chapter 1 : Production Introduction

### 1.1 Block Diagram



## 1.2 Specifications

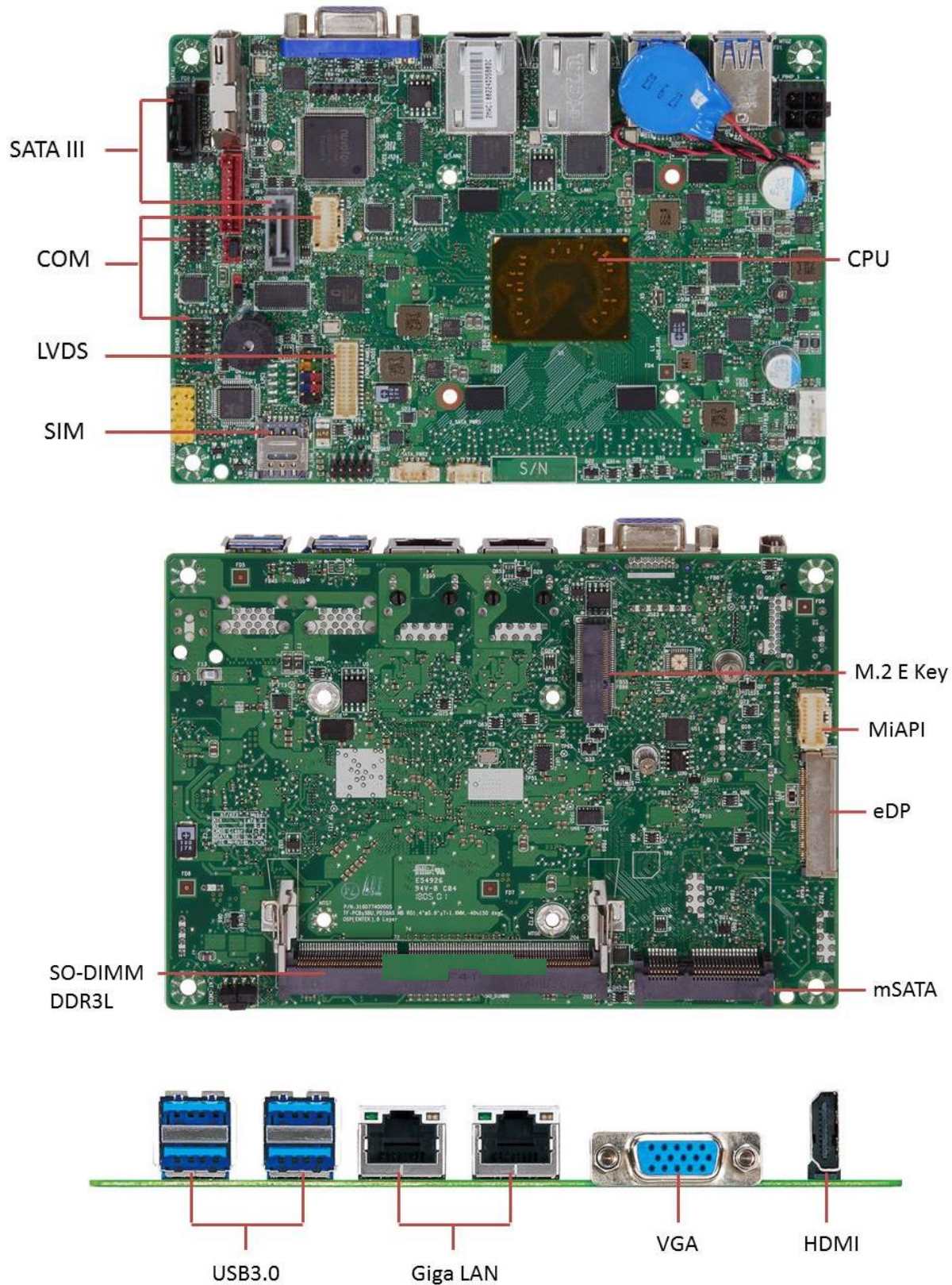
| System              |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| CPU                 | Intel® Apollo Lake-M N3350/N4200 Processor<br>Intel® Apollo Lake-I E3930 Processor                           |
| Memory type         | DDR3L 1866MHz, 1 x 204pin SO-DIMM, Max. 8GB (Non-ECC)                                                        |
| Chipset             | Intel® SoC Integrated                                                                                        |
| Graphics            | Intel® HD Graphics                                                                                           |
| Ethernet            | 2 x Intel® I210-IT Giga LAN                                                                                  |
| Audio               | Realtek® ALC662                                                                                              |
| I/O Chipset         | Nuvoton NCT6116D                                                                                             |
| TPM                 | Nuvoton NPCT650ABCYX TPM2.0 (Optional)                                                                       |
| Expansion Slot      | Storage: Mini PCIe Full size (USB / PCIe / SATA), w/ SIM Card Holder<br>Wireless: M.2 2230 E-key (PCIe, USB) |
| BIOS                | AMI BIOS                                                                                                     |
| H / W Monitor       | Temperature Monitor, Voltage Monitor                                                                         |
| Watchdog Timer      | 1 to 255 Steps by Software Program                                                                           |
| Smart Fan Control   | CPU Fan                                                                                                      |
| Graphics            |                                                                                                              |
| VGA                 | Up to 1920 x 1200 @60 Hz                                                                                     |
| HDMI                | Up to 4K (3840 x 2160) @30 Hz                                                                                |
| LVDS                | Up to 1920 x 1200 @60 Hz                                                                                     |
| eDP (Option)        | Up to 4K (3840 x 2160) @60 Hz                                                                                |
| Rear I/O            |                                                                                                              |
| USB                 | 4 x USB 3.0                                                                                                  |
| Display I/O         | 1 x HDMI 1.4, 1 x VGA                                                                                        |
| LAN I/O             | 2 x RJ-45                                                                                                    |
| Internal Connectors |                                                                                                              |
| Storage             | 2 x SATAIII ( 1 x SATA is multiplexed with 1 x mSATA port)                                                   |
| USB                 | 2 x USB 2.0                                                                                                  |
| Display I/O         | 1 x LVDS, 1 x eDP<br>1 x Backlight Connector                                                                 |
| Audio I/O           | 1 x Audio Header (Front Panel Mic-in & Line-out)                                                             |
| Serial Port         | 4 x RS232 (One Supports RS232/422/485)                                                                       |
| GPIO                | 1 x MiAPI Header (Programmable. Support 10bit GPIO)                                                          |

# OXY5323A User's Manual

Revision Date: Feb.14.2022

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Fan                        | 1 x 4-pin CPU Fan Header                                       |
| Power                      | 1 x 8~24V ATX Power Connector, 1 x AT/ATX Mode Select Jumper   |
| Others                     | 1 x CMOS Jumper                                                |
| <b>Power Requirement</b>   |                                                                |
| Power Input                | 8~24V Wide Range DC Input w/4-pin ATX connector (Pitch: 4.2mm) |
| <b>Environmental</b>       |                                                                |
| Operating Temperature      | -20 to 70°C (Optional -40 to 85°C)                             |
| Storage Temperature        | -40 to 85°C                                                    |
| Operating Humidity         | 10% to 95% R/H, non-condensing                                 |
| <b>Standard Compliance</b> |                                                                |
| Standard Compliance        | CE/FCC                                                         |
| <b>OS</b>                  |                                                                |
| OS Support                 | Windows® 10 64bit, Linux(Support by request)                   |

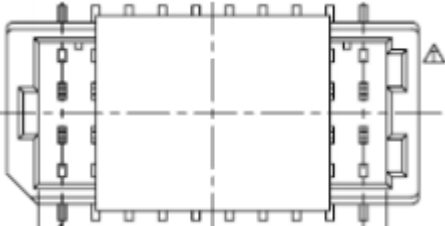
## 1.3 Board Placement



## Chapter 2 : Jumpers and Connectors

### 2.1 FRONT\_PANEL1 (JLVDS1) LVDS panel pin out define

| PIN | DEFINITION                               | PIN | DEFINITION                               |
|-----|------------------------------------------|-----|------------------------------------------|
| 1   | Minus signal of odd channel 0 (LVDS)     | 2   | Minus signal of odd channel 0 (LVDS)     |
| 3   | Plus signal of odd channel 0 (LVDS)      | 4   | Plus signal of odd channel 0 (LVDS)      |
| 5   | Minus signal of odd channel 1 (LVDS)     | 6   | Minus signal of odd channel 1 (LVDS)     |
| 7   | Plus signal of odd channel 1 (LVDS)      | 8   | Plus signal of odd channel 1 (LVDS)      |
| 9   | Minus signal of odd channel 2 (LVDS)     | 10  | Ground                                   |
| 11  | Plus signal of odd channel 2 (LVDS)      | 12  | Minus signal of odd channel 2 (LVDS)     |
| 13  | Ground                                   | 14  | Plus signal of odd channel 2 (LVDS)      |
| 15  | Minus signal of odd clock channel (LVDS) | 16  | Minus signal of odd clock channel (LVDS) |
| 17  | Plus signal of odd clock channel (LVDS)  | 18  | Plus signal of odd clock channel (LVDS)  |
| 19  | Minus signal of odd channel 3 (LVDS)     | 20  | Minus signal of odd channel 3 (LVDS)     |
| 21  | Plus signal of odd channel 3 (LVDS)      | 22  | Plus signal of odd channel 3 (LVDS)      |
| 23  | Ground                                   | 24  | Ground                                   |
| 25  | NC                                       | 26  | NC                                       |
| 27  | Power Supply +12.0V                      | 28  | Power Supply +12.0V                      |
| 29  | Power Supply +12.0V                      | 30  | Power Supply +12.0V                      |



## 2.2 eDP1 Pin out define

| Pin | Signal              | Pin | Signal              |
|-----|---------------------|-----|---------------------|
| 1   | NC_Reserved         | 21  | LCD_VCC             |
| 2   | High-speed_GND      | 22  | LCD_Self_Test-or-NC |
| 3   | Lane3_N(DDPD_[3]N)  | 23  | LCD_GND             |
| 4   | Lane3_P(DDPD_[3]P)  | 24  | LCD_GND             |
| 5   | High-speed_GND      | 25  | LCD_GND             |
| 6   | Lane2_N(DDPD_[2]N)  | 26  | LCD_GND             |
| 7   | Lane2_P(DDPD_[2]P)  | 27  | HDP(DDPD_HPDP)      |
| 8   | High-speed_GND      | 28  | BKLT_GND            |
| 9   | Lane1_N(DDPD_[1]N)  | 29  | BKLT_GND            |
| 10  | Lane1_P(DDPD_[1]P)  | 30  | BKLT_GND            |
| 11  | High-speed_GND      | 31  | BKLT_GND            |
| 12  | Lane0_N(DDPD_[0]N)  | 32  | BKLT_ENABLE         |
| 13  | Lane0_P(DDPD_[0]P)  | 33  | BKLT_PWM_DIM        |
| 14  | High-speed_GND      | 34  | NC_Reserved         |
| 15  | AUX_CH_P(DDPD_AUXP) | 35  | NC_Reserved         |
| 16  | AUX_CH_N(DDPD_AUXN) | 36  | BKLT_PWR            |
| 17  | High-speed_GND      | 37  | BKLT_PWR            |
| 18  | LCD_VCC             | 38  | BKLT_PWR            |
| 19  | LCD_VCC             | 39  | BKLT_PWR            |
| 20  | LCD_VCC             | 40  | NC_Reserved         |



## LCD\_PS1 : Panel LCD voltage selection header pin-out

| Pin | Signal  | Description               | <p>Pins 2&amp;4: Jumper position for 3.3V</p> <p>Pins 6&amp;4: Jumper position for 5V</p> <p>Pins 3&amp;4: Jumper position for 12V</p> |
|-----|---------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Key     | No pin                    |                                                                                                                                        |
| 2   | 3.3V    | 3.3V option (Default)     |                                                                                                                                        |
| 3   | 12V     | 12V option                |                                                                                                                                        |
| 4   | LCD_VCC | Send voltage to connector |                                                                                                                                        |
| 5   | Key     | No pin                    |                                                                                                                                        |
| 6   | 5V      | 5V option                 |                                                                                                                                        |

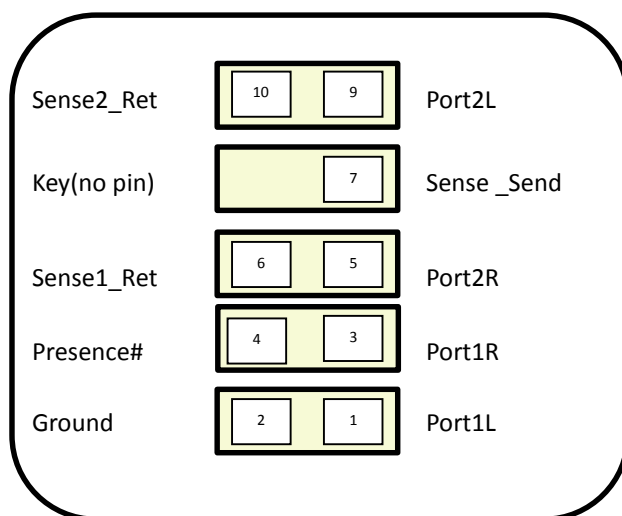
## BKLT\_PS1 : Backlight inverter voltage selection header

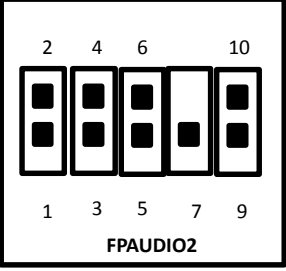
| Pin | Signal   | Description          |  |
|-----|----------|----------------------|--|
| 1   | 5V       | 5V option            |  |
| 2   | BKLT_PWR | BKLT_PWR             |  |
| 3   | 12V      | 12V option (default) |  |

## FPD\_PWR1 Pin out define

| Pin | Signal                   | Description               |  |
|-----|--------------------------|---------------------------|--|
| 1   | BKLT_EN                  | Backlight enable          |  |
| 2   | BKLT_PWM                 | Backlight control         |  |
| 3   | BKLT_PWR                 | Backlight inverter power  |  |
| 4   | BKLT_PWR                 | Backlight inverter power  |  |
| 5   | BKLT_GND/Brightness _GND | Ground (shared)           |  |
| 6   | BKLT_GND/Brightness _GND | Ground (shared)           |  |
| 7   | Brightness _Up           | Panel brightness increase |  |
| 8   | Brightness _Down         | Panel brightness decrease |  |

## 2.3 FPAUDIO2 Audio Pin out define



|  | Pin | Pin Assignment              | Pin | Pin Assignment                     |
|-------------------------------------------------------------------------------------|-----|-----------------------------|-----|------------------------------------|
|                                                                                     | 1   | MIC2 L (Microphone 2 Left)  | 2   | AGND (Analog Ground)               |
|                                                                                     | 3   | MIC2 R (Microphone 2 Right) | 4   | AVCC (Analog VCC Power)            |
|                                                                                     | 5   | FRO-R (Front Right)         | 6   | MIC2_JD (Microphone 2 Jack Detect) |
|                                                                                     | 7   | F_IO_SEN (Front I/O Sensor) | 8   | Key                                |
|                                                                                     | 9   | FRO-L (Front Left)          | 10  | LINE2_JD (LINE 2 Jack Detect)      |
|                                                                                     |     |                             |     |                                    |

## 2.4 LAN port

| Diagram                                                                             | LED   | Color  | State    | Condition                   |
|-------------------------------------------------------------------------------------|-------|--------|----------|-----------------------------|
|  | Link  | N/A    | Off      | LAN link is not established |
|                                                                                     |       | Green  | On       | LAN link is established     |
|                                                                                     |       |        | Blinking | LAN activity occurring      |
|                                                                                     | Speed | N/A    | Off      | 10 Mb/s data rate           |
|                                                                                     |       | Green  | On       | 100 Mb/s data rate          |
|                                                                                     |       | Yellow | On       | 1000 Mb/s data rate         |

## 2.5 SATA

**SATA PORT0:** This is optional port from mini PCI-E and SATA0 Connector Board must also support the following Serial ATA Gen 3 compliant ports   
One fully-shrouded right angle internal SATA gen 3 ports (colored GREY)

### SATA PORT1

Board must also support the following Serial ATA Gen 3 compliant   
one fully-shrouded right angle internal SATA gen 3 ports (colored BLACK) 

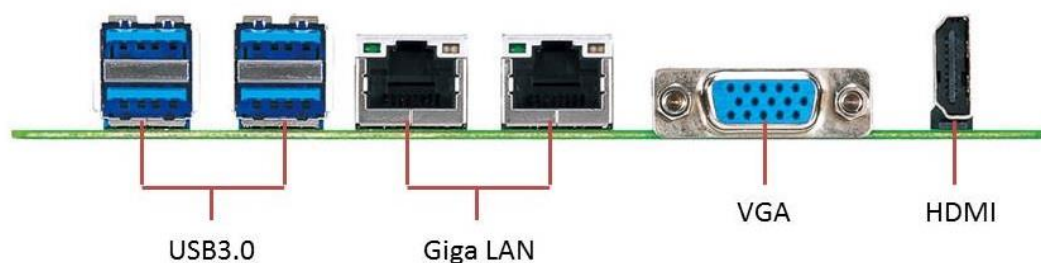
**Note:** All SATA must be compliant with the Serial ATA Revision 3.0 Specification, as noted in the Reference Documentation section.

## 2.6 Super I/O

Board must support the following features through a Super IO controller device: 

- SMBUS/SMLink support for SOC temp 
- Support for as one fan headers as required in section 1.4.2 - Fan Header Requirements 
- Support minimum of 2 temperature inputs per PWM Controller for duty cycle determination
- Support for non-ACPI based fan control (thermal responsiveness independent of system software)  Support 4ea serial port: 3ea RS232, 1ea RS485/RS422/RS232 
- Legacy I/O (for applicable ports)

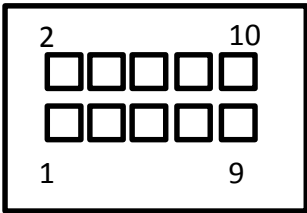
## 2.7 Back Panel I/O



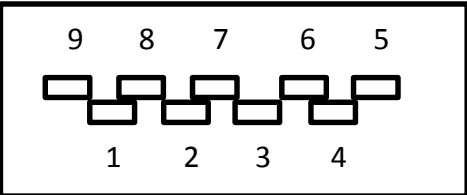
## 2.8 USB

### Front panel USB header pin-out define (FP\_USB1)

| Pin | Signal          | Pin | Signal          | FP_USB1 |
|-----|-----------------|-----|-----------------|---------|
| 1   | +5V DC          | 2   | +5V DC          |         |
| 3   | Data (negative) | 4   | Data (negative) |         |
| 5   | Data (positive) | 6   | Data (positive) |         |
| 7   | Ground          | 8   | Ground          |         |
| 9   | Key (no pin)    | 10  | No Connect      |         |



### Rear USB3.0 I/O port (J5/J10)

| Pin   | Signal Name | Description                              | Mating Sequence | J5/J10<br> |
|-------|-------------|------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|
| 1     | VBUS        | Power                                    | Second          |                                                                                               |
| 2     | D-          | USB 2.0 differential pair                | Third           |                                                                                               |
| 3     | D+          |                                          |                 |                                                                                               |
| 4     | GND         | Ground for power return                  | Second          |                                                                                               |
| 5     | StdA_SSRX-  | SuperSpeed receiver differential pair    | Last            |                                                                                               |
| 6     | StdA_SSRX+  |                                          |                 |                                                                                               |
| 7     | GND_DRAIN   | Ground for signal return                 |                 |                                                                                               |
| 8     | StdA_SSTX-  | SuperSpeed transmitter differential pair |                 |                                                                                               |
| 9     | StdA_SSTX+  |                                          |                 |                                                                                               |
| Shell | Shield      | Connector metal shell                    | First           |                                                                                               |

## 2.9 PCI Express Expansion Slots

Board's PCI Express slot(s) must be PCI Express Specification v2.0 compliant and compatible with PCI Express v2.0 and v1.1 add-in cards.

PCI Express x16 slot must be compatible with x16/x8/x4/x1 PCI Express add-on cards. PCIe x16 slot's retention mechanism must be consistent across Intel desktop boards.

PCI Express x4 slot(s) must be compatible with PCI Express x4 and x1 add-on cards. Slot power capability must comply with 25W requirement as defined in the PCI Express Card Electromechanical 3.0 Specification.

PCI Express x1 slot(s) must be compatible with x1 PCI Express add-on cards.

Route WAKE# to support ACPI wake events.

Design must provide SMBus routed to all PCI Express slots, with individual/per slot de-stuffing option via strapping resistor (strapping resistor must be stuffed by default).

Follow the ATX specification and Industrial DFA (Design for Assembly) standard requirements for connector placement and spacing.

Keep-out zone of PCI Express v3.0 x16 slot must allow use of double-width and long graphics cards without blocking access to any connectors (i.e. SATA ports, DIMM connector tabs, front panel audio header, ...).

## 2.10 Expansion Slot Layout

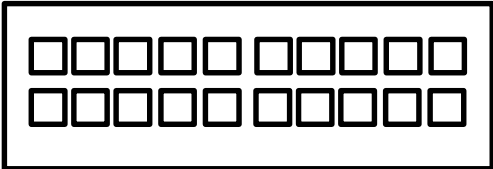
| Slot Configuration | Electrical         | Physical Connector | Color |
|--------------------|--------------------|--------------------|-------|
| J43                | M.2 key M socket   | M.2 Key E socket   | Black |
| J25                | PCI Express 3.0 x1 | Mini PCIE          | Black |

## 2.11 Front Panel Pin out define (JS2)

| <div style="text-align: center;"> <p>PWR_LED<br/>(+) (-) ON / OFF</p> <p>(+) (-) RESET<br/>HDD_LED</p> </div> |               |                                |     |                |                                    |
|---------------------------------------------------------------------------------------------------------------|---------------|--------------------------------|-----|----------------|------------------------------------|
| Pin                                                                                                           | Signal Name   | Description                    | Pin | Signal Name    | Description                        |
| 1                                                                                                             | HDD_POWER_LED | Pull-up resistor (750Ω) to +5V | 2   | POWER_LED_MAIN | [Out] Front panel LED (main color) |
| 3                                                                                                             | HDD_LED#      | [Out] Hard disk activity LED   | 4   | POWER_LED_ALT  | [Out] Front panel LED (alt color)  |
| 5                                                                                                             | GROUND        | Ground                         | 6   | POWER_SWITCH#  | [In] Power switch                  |
| 7                                                                                                             | RESET_SWITCH# | [In] Reset switch              | 8   | GROUND         | Ground                             |
| 9                                                                                                             | +5V_DC        | Power                          | 10  | KEY            | No pin                             |

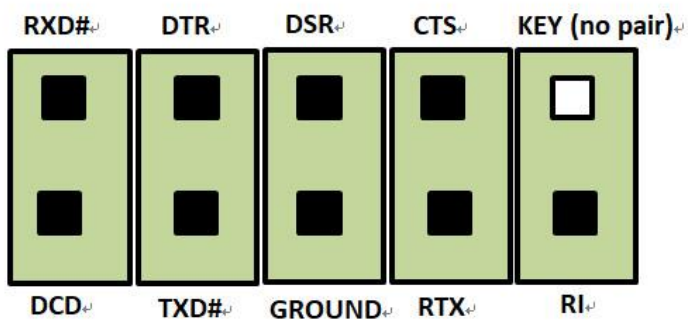
## 2.12 J\_MiAPI\_1 Pin out define

| Pin | Signal Name    | Pin | Signal Name   |
|-----|----------------|-----|---------------|
| 1   | MAPI_GPIO1     | 2   | VCC           |
| 3   | MAPI_GPIO2     | 4   | MAPI_GPIO6    |
| 5   | MAPI_GPIO3     | 6   | MAPI_GPIO7    |
| 7   | MAPI_GPIO4     | 8   | MAPI_GPIO8    |
| 9   | MAPI_GPIO5     | 10  | MAPI_GPIO9    |
| 11  | Watchdog Timer | 12  | MAPI_GPIO10   |
| 13  | Power Button   | 14  | SMB_MAIN_DATA |
| 15  | UART_TX        | 16  | SMB_MAIN_CLK  |
| 17  | UART_RX        | 18  | 5VSB          |
| 19  | GND            | 20  | N/C           |

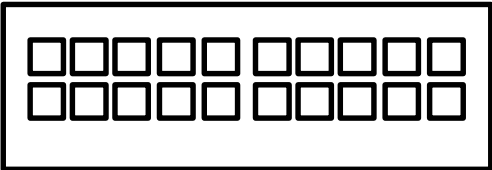


## 2.13 Serial Port

J\_RS232/422/485\_P4, J\_RS232\_P2 Serial port header pin



## RS232\_P1P3 Serial port header pin out define

| Pin | Signal<br>RS232           | Pin | Signal<br>RS232           | RS485/RS422/RS232 feature:<br> |
|-----|---------------------------|-----|---------------------------|------------------------------------------------------------------------------------------------------------------|
| 1   | DCD (Data Carrier Detect) | 2   | RXD# (Receive Data)       |                                                                                                                  |
| 3   | TXD# (Transmit Data)      | 4   | DTR (Data Terminal Ready) |                                                                                                                  |
| 5   | Ground                    | 6   | DSR (Data Set Ready)      |                                                                                                                  |
| 7   | RTS (Request To Send)     | 8   | CTS (Clear To Send)       |                                                                                                                  |
| 9   | RI (Ring Indicator)       | 10  | NC                        |                                                                                                                  |
| 11  | DCD (Data Carrier Detect) | 12  | RXD# (Receive Data)       |                                                                                                                  |
| 13  | TXD# (Transmit Data)      | 14  | DTR (Data Terminal Ready) |                                                                                                                  |
| 15  | Ground                    | 16  | DSR (Data Set Ready)      |                                                                                                                  |
| 17  | RTS (Request To Send)     | 18  | CTS (Clear To Send)       |                                                                                                                  |
| 19  | RI (Ring Indicator)       | 20  | NC                        |                                                                                                                  |

## 2.14 AT/ATX, CMOS , mSATA header in silkscreen / feature (J\_AT\_CMOS1) pin out define

| JUMPER   | J_AT_CMOS1 |
|----------|------------|
| (1-2)    | Clear CMOS |
| (1-3)    | Normal     |
| (4-6)    | ATX        |
| (6-8)    | AT         |
| (5-7)    | PCIE       |
| (5-7) NA | mSATA      |

| JUMPER     | (1-2)      | (1-3)  |
|------------|------------|--------|
| Clear CMOS | Clear CMOS | Normal |

CMOS clear

Normal: 1-3

Clear CMOS: 1-2

| JUMPER | (8-6)   | (4-6)        |
|--------|---------|--------------|
| AT/ATX | AT Mode | ATX(Default) |

mSATA detection function:

| JUMPER     | (5-7) IN                   | (5-7) NA |
|------------|----------------------------|----------|
| mSATA/PCIE | PCIE 3G<br>Module(Default) | mSATA    |

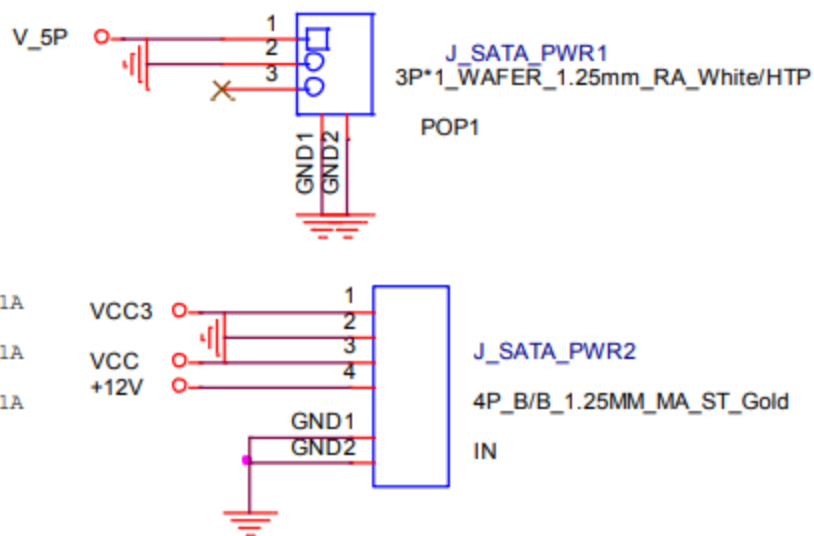
## 2.15 SATA power 1.25mm cable pin out define

J\_SATA\_PWR1

| Pin | signal |
|-----|--------|
| 1   | 5V     |
| 2   | GND    |
| 3   | NC     |

J\_SATA\_PWR2

| Pin | signal |
|-----|--------|
| 1   | VCC3   |
| 2   | GND    |
| 3   | VCC    |
| 4   | +12V   |



## 2.16 ATX power 4P/DC power 4.2mm pin out define

J\_PW4P\_1

| Pin | signal       |
|-----|--------------|
| 1   | GND          |
| 2   | GND          |
| 3   | Power 8V~24V |
| 4   | Power 8V~24V |

The image shows the physical layout of the J\_PW4P\_1 connector on a PCB, with dimensions H=3mm and H=3mm. To the right is a pinout diagram for J\_PW4P\_1 IN, a 2P\*2\_ATX 4.2mm\_FM Black\_W/PressFit connector. The diagram shows pins 1, 2, 3, and 4. Pin 1 is connected to pin 3, pin 2 to pin 4, and pin 4 to DC\_IN. Pin 3 is connected to ground.

## 2.17 Thermal Management and Fan Control

- Nuvoton NCT6104D SuperIO: backup alternate solution as it leverages existing hardware in the designs, but software infrastructure must be put in place to support this solution.

Regardless of solution chosen, BIOS/driver/tools support and subsystem validation is required, even if solution is not needed by pilot.

Board must use SuperIO solution for hardware monitoring and thermal management. SuperIO implementation must be supported by BIOS, tools and drivers necessary for custom thermal profile management no later than by fab B samples.

BIOS/tools/driver support and subsystem validation is required.

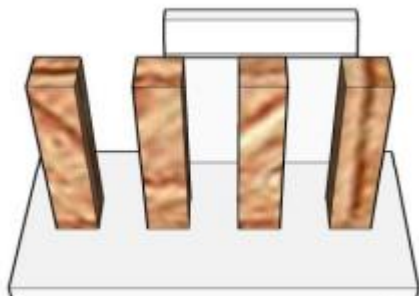
The thermal management capability must support temperature sensors near CPU VR FETs as well as near or on the memory components; shall only one temperature sensor be feasible it must be located near the CPU VR FETs.

The following thermal management features must be supported:

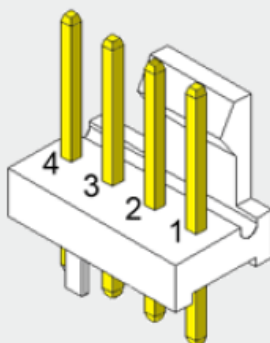
- Temperature monitoring at the following locations:
  - remote diode near CPU VR FETs
  - remote diode near or on the memory components
- Voltage monitoring (in priority order): +12V, V\_SM, CPU VCC\_VCGI, CPU VNN\_SVID

## 2.18 CPU Fans

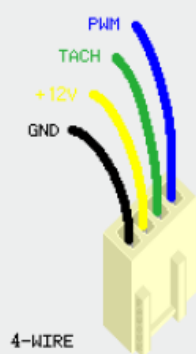
Processor fan header (J20) :



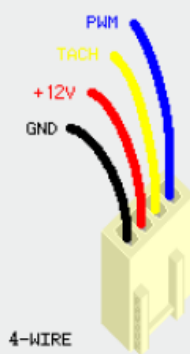
Motherboard Fan 4 Pin header Connector.



Fan 4 Pin Connector.



| Pin | Name    | Color  |
|-----|---------|--------|
| 1   | GND     | black  |
| 2   | +12VDC  | yellow |
| 3   | Sense   | green  |
| 4   | Control | blue   |



For some AMD cpu fans:

| Pin | Name    | Color  |
|-----|---------|--------|
| 1   | GND     | black  |
| 2   | +12VDC  | red    |
| 3   | Sense   | yellow |
| 4   | Control | blue   |

## 2.19 Fan Header Requirements

The below requirements must be met for the 4-pin processor/heatsink fan (CPU FAN) header: ⑦

- Closed loop fan speed control via the FANPWM0 signal routed to pin-4 ⑦
- Route fan tachometer signal to FANTACH0 input ⑦
- Support 2A continuous draw ⑦
- Clearly label as “CPU FAN” ⑦
- Locate closest to the CPU as required by the CDPG boxed CPU

## Chapter 3 : BIOS Specification

This chapter provides information about how to set up BIOS and use BIOS menu items to adjust basic function settings.

### 3.1 MAIN PAGE

| Main                                                            | Advanced | Chipset | Security          | Boot | Save & Exit |
|-----------------------------------------------------------------|----------|---------|-------------------|------|-------------|
| BIOS Information                                                |          |         |                   |      |             |
| BIOS Version                                                    |          |         | D7740X01          |      |             |
| Build Date                                                      |          |         | 02/02/2017        |      |             |
| Processor Information                                           |          |         |                   |      |             |
| Genuine Intel® CPU @ 1.50GHz                                    |          |         |                   |      |             |
| SATA Devices                                                    |          |         |                   |      |             |
| SATA Port0                                                      |          |         | [Not Installed]   |      |             |
| SATA Port1                                                      |          |         | [Not Installed]   |      |             |
| 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. |

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|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| 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           | <p>Set the Date. Use Tab to switch between Date elements.</p> <p>Default Ranges:</p> <p>Year: 2005-2099</p> <p>Months: 1-12</p> <p>Days: dependent on month</p> |

|                |                                                        |
|----------------|--------------------------------------------------------|
| 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. |

## 3.2 ADVANCED PAGE

| Main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Advanced | Chipset | Security | Boot | Save & Exit                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>LAN1<div>[Enable]</div></div> <div>LAN2<div>[Enable]</div></div> <div>Mini PCIe<div>[Enable]</div></div> <div>M.2<div>[Enable]</div></div> <div>▶Intel(R) I210 Gigabit Network Connection – 00:22:4D:4D:...</div> <div>▶Intel(R) I210 Gigabit Network Connection – 00:22:4D:4D:...</div> <div>▶Driver Health</div> <div>▶Trusted Computing</div> <div>▶SMART settings</div> <div>▶NCT6116D Super IO Configuration</div> <div>▶S5 RTC Wake Settings</div> <div>▶CPU Configuration</div> <div>▶Network Stack Configuration</div> <div>▶Platform Trust Technology</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>LAN1</b>               |
| Default Value  | Enabled                   |
| Possible Value | Disabled<br>Enabled       |
| Help           | Enable/Disable LAN Device |

|                |                           |
|----------------|---------------------------|
| Field Name     | <b>LAN2</b>               |
| Default Value  | Enabled                   |
| Possible Value | Disabled<br>Enabled       |
| Help           | Enable/Disable LAN Device |

|                |                          |
|----------------|--------------------------|
| Field Name     | <b>Mini PCIe</b>         |
| Default Value  | Enabled                  |
| Possible Value | Disabled<br>Enabled      |
| Help           | Enable/Disable mini PCIe |

|            |            |
|------------|------------|
| Field Name | <b>M.2</b> |
|------------|------------|

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|                |                     |
|----------------|---------------------|
| Default Value  | Enabled             |
| Possible Value | Disabled<br>Enabled |
| Help           | Enable/Disable M.2  |

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

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

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

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|            |                                                               |
|------------|---------------------------------------------------------------|
| Field Name | <b>NCT6104D 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>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>CPU Configuration</b>                                      |
| Help       | CPU Configuration Parameters.                                 |
| 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. |

|            |                                                               |
|------------|---------------------------------------------------------------|
| Field Name | <b>Platform Trust Technology</b>                              |
| Help       | Platform Trust Technology                                     |
| Comment    | Press Enter when selected to go into the associated Sub-Menu. |

## 3.2.1 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                                                                                                                                                                      |
| PCI Device ID                                                   |          |         |          |      | 1533                                                                                                                                                                            |
| PCI Address                                                     |          |         |          |      | 01:00:00                                                                                                                                                                        |
| Link Status                                                     |          |         |          |      | [Disconnected]                                                                                                                                                                  |
| MAC Address                                                     |          |         |          |      | 00:22:4D:4D:00:01                                                                                                                                                               |
| Virtual MAC Address                                             |          |         |          |      | 00:00:00:00:00:00                                                                                                                                                               |
| Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc. |          |         |          |      | →←: Select Screen<br>↑↓: Select Item<br>Enter: Select<br>+/- : Change Opt<br>F1: General Help<br>F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Reset<br>ESC: Exit |

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|            |                                                               |
|------------|---------------------------------------------------------------|
| Field Name | <b>NIC Configuration</b>                                      |
| Help       | Click to configure the network device port.                   |
| Comment    | Press Enter when selected to go into the associated Sub-Menu. |

|            |                   |
|------------|-------------------|
| Field Name | <b>Blink LEDs</b> |
|------------|-------------------|

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Default Value  | 0                                                                  |
| Possible Value | 0-15                                                               |
| Help           | Identify the physical network port by blinking the associated LED. |

## 3.2.2 NIC CONFIGURATION

| Main                                                                      | Advanced | Chipset | Security | Boot | Save & Exit                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------|----------|---------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Link Speed [Auto Negotiated]</div> <div>Wake On LAN [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 &amp; Reset</div> <div>ESC: Exit</div> |
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|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| Field Name     | Link Speed                                                                       |
| Default Value  | Auto Negotiated                                                                  |
| Possible Value | Auto Negotiated<br>10Mbps Half<br>10 Mbps Full<br>100 Mbps Half<br>100 Mbps Full |

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

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Field Name     | <b>Wake On LAN</b>                                                 |
| Default Value  | Enabled                                                            |
| Possible Value | Disabled<br>Enabled                                                |
| Help           | Enables the server to be powered on using an in-band magic packet. |

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

| Main                                                            | Advanced | Chipset | Security | Boot | Save & Exit                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|----------|---------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▶NIC Configuration                                              |          |         |          |      |                                                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                                          |
| PCI Device ID                                                   |          |         |          |      | 1533                                                                                                                                                                                                                                                                                |
| PCI Address                                                     |          |         |          |      | 01:00:00                                                                                                                                                                                                                                                                            |
| Link Status                                                     |          |         |          |      | [Disconnected]                                                                                                                                                                                                                                                                      |
| MAC Address                                                     |          |         |          |      | 00:22:4D:4D:00:02                                                                                                                                                                                                                                                                   |
| Virtual MAC Address                                             |          |         |          |      | 00:00:00:00:00:00                                                                                                                                                                                                                                                                   |
|                                                                 |          |         |          |      | <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>NIC Configuration</b>                                      |
| Help       | Click to configure the network device port.                   |
| Comment    | Press Enter when selected to go into the associated Sub-Menu. |

|            |                   |
|------------|-------------------|
| Field Name | <b>Blink LEDs</b> |
|------------|-------------------|

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Default Value  | 0                                                                  |
| Possible Value | 0-15                                                               |
| Help           | Identify the physical network port by blinking the associated LED. |

## 3.2.4 NIC CONFIGURATION

| Main                                                                      | Advanced | Chipset | Security | Boot | Save & Exit                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------|----------|---------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Link Speed [Auto Negotiated]</div> <div>Wake On LAN [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 &amp; Reset</div> <div>ESC: Exit</div> |
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|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| Field Name     | Link Speed                                                                       |
| Default Value  | Auto Negotiated                                                                  |
| Possible Value | Auto Negotiated<br>10Mbps Half<br>10 Mbps Full<br>100 Mbps Half<br>100 Mbps Full |

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

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

## 3.3DRIVER HEALTH

| Main                                                            | Advanced | Chipset | Security | Boot    | Save & Exit                                                                                                                                                                     |
|-----------------------------------------------------------------|----------|---------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▶Intel(R) PRO/1000 7.3.20 PCI-E                                 |          |         |          | Healthy | Item help                                                                                                                                                                       |
|                                                                 |          |         |          |         | →←: Select Screen<br>↑↓: Select Item<br>Enter: Select<br>+/- : Change Opt<br>F1: General Help<br>F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Reset<br>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. |

## 3.3.1 INTEL(R) PRO/1000 7.3.20 PCI-E

| Main                                                            | Advanced | Chipset | Security | Boot | Save & Exit            |
|-----------------------------------------------------------------|----------|---------|----------|------|------------------------|
| Controller 73a9fd58 Child 0 Healthy                             |          |         |          |      | Item help              |
| Intel(R) I210 Gigabit Network Connection Healthy                |          |         |          |      |                        |
| Controller 73a9f558 Child 0 Healthy                             |          |         |          |      |                        |
| Intel(R) I210 Gigabit Network Connection Healthy                |          |         |          |      |                        |
|                                                                 |          |         |          |      | →←: 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>Controller 73a9fd58 Child 0</b>                 |
| Help       | Provides Health Status for the Drivers/Controllers |
| Comment    | Show driver/controller status                      |

|            |                                                    |
|------------|----------------------------------------------------|
| Field Name | <b>Intel(R) I210 Gigabit Network Connection</b>    |
| Help       | Provides Health Status for the Drivers/Controllers |

|         |                               |
|---------|-------------------------------|
| Comment | Show driver/controller status |
|---------|-------------------------------|

|            |                                                    |
|------------|----------------------------------------------------|
| Field Name | <b>Controller 73a9f558 Child 0</b>                 |
| Help       | Provides Health Status for the Drivers/Controllers |
| Comment    | Show driver/controller status                      |

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

### 3.4 TRUSTED COMPUTING

| Main                                                                                                                                                                                                                                                                                | Advanced | Chipset | Security | Boot | Save & Exit |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|------|-------------|
| <div>TPM20 Device Found</div> <div>Vendor: INTC</div> <div>Firmware Version: 3.0</div> <div>Security Device Support [Enable]</div> <div>Active PCR banks SHA-1, SHA256</div> <div>Available PCR banks SHA-1, SHA256</div> <div>Pending operation [None]</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    | Security Device Support |
| Default Value | Enabled                 |

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|                |                                                                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Possible Value | Disabled<br><br>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     | <b>Pending operation</b>                                                                                                                   |
| Default Value  | None                                                                                                                                       |
| Possible Value | None<br><br>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. |

## 3.5 SMART SETTINGS

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

## 3.6 NCT6116D SUPER IO CONFIGURATION

| Main                                                            | Advanced | Chipset | Security | Boot | Save & Exit            |
|-----------------------------------------------------------------|----------|---------|----------|------|------------------------|
| NCT6116D Super IO Configuration                                 |          |         |          |      |                        |
| Serial Port 1                                                   |          |         |          |      | Item help              |
| [Enabled]                                                       |          |         |          |      |                        |
| Serial Port 2                                                   |          |         |          |      |                        |
| [Enabled]                                                       |          |         |          |      |                        |
| Serial Port 3                                                   |          |         |          |      |                        |
| [Enabled]                                                       |          |         |          |      |                        |
| Serial Port 4                                                   |          |         |          |      | →←: Select Screen      |
| [Enabled]                                                       |          |         |          |      | ↑↓: Select Item        |
| Serial Port Mode                                                |          |         |          |      | Enter: Select          |
| [3T/5R RS-232]                                                  |          |         |          |      | +/- : Change Opt       |
| SLEW Rate                                                       |          |         |          |      | F1: General Help       |
| [1.5Mbps]                                                       |          |         |          |      | 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<br>Disabled                 |
| Help           | Enable or Disable Serial Port (COM) |

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|                |                                     |
|----------------|-------------------------------------|
| Field Name     | Serial Port 2                       |
| Default Value  | [Enabled]                           |
| Possible Value | Enabled<br><br>Disabled             |
| Help           | Enable or Disable Serial Port (COM) |

|                |                                     |
|----------------|-------------------------------------|
| Field Name     | Serial Port 3                       |
| Default Value  | [Enabled]                           |
| Possible Value | Enabled<br><br>Disabled             |
| Help           | Enable or Disable Serial Port (COM) |

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|                |                                     |
|----------------|-------------------------------------|
| Field Name     | Serial Port 4                       |
| Default Value  | [Enabled]                           |
| Possible Value | Enabled<br><br>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<br><br>3T/5R RS-232<br><br>1T/1R RS-485 TX ENABLE Low Active<br><br>1T/1R RS-485 with termination resistor TX ENABLE Low Active |

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

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

## 3.7 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<br>↑↓: Select Item<br>Enter: Select<br>+/- : Change Opt<br>F1: General Help<br>F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Reset<br>ESC: Exit |
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|               |                     |
|---------------|---------------------|
| Field Name    | Wake system from S5 |
| Default Value | [Disabled]          |

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|                |                                                                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Possible Value | Disabled<br><br>Fixed Time<br><br>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                                                          |

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|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| 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 |
|------|-------|

## 3.8 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]     | →←: Select Screen |
| EIST                                               |          |         |          | [Enable]      | ↑↓: Select Item   |
| Turbo mode                                         |          |         |          | [Enable]      | Enter: Select     |
|                                                    |          |         |          |               | +/- : Change Opt  |
|                                                    |          |         |          |               | F1: General Help  |

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|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                                 | F2: Previous Values<br>F3: Optimized Defaults<br>F4: Save & Reset<br>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. |

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|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| 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 |

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|         |                                                                         |
|---------|-------------------------------------------------------------------------|
| 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. |

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|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| 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. |

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|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| 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<br>Disabled                                                                                    |
| Help           | When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology |

## 3.9 NETWORK STACK CONFIGURATION

| Main                                                                                                                                                                                   | Advanced | Chipset | Security | Boot | Save & Exit                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>Network stack</div> <div>[Enabled]</div> </div> <div> <div>Ipv4 PXE Support</div> <div>[Enabled]</div> </div> <div> <div>Ipv6 PXE Support</div> <div>[Enabled]</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     | Network stack                      |
| Default Value  | [Enabled]                          |
| Possible Value | Disabled<br>Enabled                |
| Help           | Enable/Disable UEFI network stack. |

|               |                  |
|---------------|------------------|
| Field Name    | Ipv4 PXE Support |
| Default Value | [Enabled]        |

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|                |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|
| Possible Value | Disabled<br><br>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<br><br>Enabled                                                             |
| Help           | Enable Ipv6 PXE Boot Support. If disabled IPV6 PXE boot option will not be created. |

### 3.10 PLATFROM TRUST TECHNOLOGY

|                                                                 |          |        |         |          |      |                        |
|-----------------------------------------------------------------|----------|--------|---------|----------|------|------------------------|
| Main                                                            | Advanced | Device | Chipset | Security | Boot | Save & Exit            |
| TPM Configuration                                               |          |        |         |          |      | Item help              |
| fTPM                                                            |          |        |         |          |      | [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 | Compatibility Support Module Configuration |
|------------|--------------------------------------------|

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

## 3.11 CHIPSET

| Main                                                            | Advanced | Chipset | Security    | Boot | Save & Exit                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------|----------|---------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Restore AC Power Loss                                           |          |         | [Power Off] |      | <div>Item help</div>                                                                                                                                                                                                                                           |
| DeepSx Power Policies                                           |          |         | [Disabled]  |      |                                                                                                                                                                                                                                                                |
| Output Panel Type                                               |          |         | [Disable]   |      |                                                                                                                                                                                                                                                                |
| DVMT Pre-Allocated                                              |          |         | [64M]       |      |                                                                                                                                                                                                                                                                |
| DVMT Total Gfx Mem                                              |          |         | [256MB]     |      |                                                                                                                                                                                                                                                                |
| Wake On Lan                                                     |          |         | [Enable]    |      |                                                                                                                                                                                                                                                                |
| OS Selection                                                    |          |         | [Windows]   |      |                                                                                                                                                                                                                                                                |
|                                                                 |          |         |             |      | <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     | Restore AC Power State                                                |
| Default Value  | [Power Off]                                                           |
| Possible Value | Power off<br><br>Power on<br><br>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<br><br>Enabled                                                 |
| Help           | Configure the DeepSx Mode configuration.                                |
| Note           | When enabled, "Wake On Lan" and "S5 RTC Wake Settings" are no function. |

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|                |                                 |
|----------------|---------------------------------|
| Field Name     | Output Panel Type               |
| Default Value  | Disable                         |
| Possible Value | LVDS<br><br>eDP<br><br>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<br><br>8 bit-VESA Dual Channel |

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|         |                                                          |
|---------|----------------------------------------------------------|
|         | 6 bit-VESA Single Channel<br><br>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<br><br>1024x768<br><br>1366x768<br><br>1280x800<br><br>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                                     |

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|                |                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------|
| Field Name     | DVMT Pre-Allocated                                                                               |
| Default Value  | [64M]                                                                                            |
| Possible Value | 64M /96M /128M /160M /192M /224M /256M /288M /320M<br>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]            |

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|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| 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<br>Enabled               |
| Help           | Enable or Disable the Wake on Lan |

|                |                        |
|----------------|------------------------|
| Field Name     | OS Selection           |
| Default Value  | Windows                |
| Possible Value | Windows<br>Intel Linux |
| Help           | Select the target OS.  |

### 3.12 SECURITY

| Main                                                                                                                                                                                                                                                                                                                          | Advanced | Chipset | Security | Boot                   | Save & Exit |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|------------------------|-------------|
| <b>Password Description</b>                                                                                                                                                                                                                                                                                                   |          |         |          |                        |             |
| If Only the Administrator's password is set<br>then this only limits access to Setup and is<br>only asked for when entering Setup<br><br>If ONLY the User's password is set, then this<br><br>Is a power on password and must be entered to<br>boot or enter Setup. In Setup the User will.<br><br>have Administrator rights. |          |         |          |                        |             |
| The password length must be<br><br>in the following range:                                                                                                                                                                                                                                                                    |          |         |          | →← : Select Screen     |             |
| Minimum Length                      3                                                                                                                                                                                                                                                                                         |          |         |          | ↑↓ : Select Item       |             |
| Maximum Length                    20                                                                                                                                                                                                                                                                                          |          |         |          | Enter: Select          |             |
| Setup Administrator Password                                                                                                                                                                                                                                                                                                  |          |         |          | +/- : Change Opt       |             |
| User Password                                                                                                                                                                                                                                                                                                                 |          |         |          | F1: General Help       |             |
| HDD Security Configuration                                                                                                                                                                                                                                                                                                    |          |         |          | F2: Previous Values    |             |
| P0:Device Name                                                                                                                                                                                                                                                                                                                |          |         |          | F3: Optimized Defaults |             |
| Secure Boot                                                                                                                                                                                                                                                                                                                   |          |         |          | 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 | <b>P0: Device Name</b>                                        |
| 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. |

## 3.12.1 HDD SECURITY CONFIGURATION

| Main                                                            | Advanced | Chipset       | Security | Boot | Save & Exit            |
|-----------------------------------------------------------------|----------|---------------|----------|------|------------------------|
| HDD Password Description                                        |          |               |          |      | Item help              |
| 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           |          |      | →←: Select Screen      |
| Security Enabled                                                | :        | No            |          |      | ↑↓: Select Item        |
| Security Locked                                                 | :        | No            |          |      | Enter: Select          |
| Security Frozen                                                 | :        | No            |          |      | +/- : Change Opt       |
| HDD User Pwd Status                                             |          | NOT INSTALLED |          |      | F1: General Help       |
|                                                                 |          |               |          |      | F2: Previous Values    |
|                                                                 |          |               |          |      | F3: Optimized Defaults |
|                                                                 |          |               |          |      | F4: Save & Reset       |
|                                                                 |          |               |          |      | ESC: Exit              |
| Set User Password                                               |          |               |          |      |                        |
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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. |

## 3.12.2 SECURE BOOT MODE

| Main                                                            | Advanced | Chipset | Security | Boot | Save & Exit            |
|-----------------------------------------------------------------|----------|---------|----------|------|------------------------|
|                                                                 |          |         |          |      | Item help              |
| System Mode                                                     |          |         |          |      | Setup                  |
| Vendor Keys                                                     |          |         |          |      | Not Modified           |
| Secure Boot Enable                                              |          |         |          |      | [Enabled]              |
| Secure Boot Mode                                                |          |         |          |      | [Standard]             |
| Key Management                                                  |          |         |          |      |                        |
|                                                                 |          |         |          |      | →←: Select Screen      |
|                                                                 |          |         |          |      | ↑↓: Select Item        |
|                                                                 |          |         |          |      | Enter: Select          |
|                                                                 |          |         |          |      | +/- : Change Opt       |
|                                                                 |          |         |          |      | F1: General Help       |
|                                                                 |          |         |          |      | F2: Previous Values    |
|                                                                 |          |         |          |      | F3: Optimized Defaults |
|                                                                 |          |         |          |      | F4: Save & Reset       |
|                                                                 |          |         |          |      | ESC: Exit              |
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|                |                                                                                                                     |
|----------------|---------------------------------------------------------------------------------------------------------------------|
| Field Name     | Secure Boot 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. |

## 3.12.3 KEY MANAGEMENT

| Main                                                            | Advanced | Chipset | Security | Boot                     | Save & Exit            |
|-----------------------------------------------------------------|----------|---------|----------|--------------------------|------------------------|
| Provision Factory Default                                       |          |         |          | [Disabled]               | Item help              |
| ▶Restore 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              |
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|                |                                                                                        |
|----------------|----------------------------------------------------------------------------------------|
| Field Name     | Provision Factory Default                                                              |
| Default Value  | [Disabled]                                                                             |
| Possible Value | Enabled<br><br>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 |

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|         |                                                                                |
|---------|--------------------------------------------------------------------------------|
|         | (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<br><br>Export<br><br>Set New<br><br>Delete                                                                                                                                                                                                                                                         |
| Help           | Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in:<br>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 |

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|                |                                                                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Field Name     | Key Exchange Key : 0      0      No Keys                                                                                                                                                                                                                                                                   |
| Possible Value | Details<br><br>Export<br><br>Set New<br><br>Append<br><br>Delete                                                                                                                                                                                                                                           |
| Help           | Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in:<br>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<br><br>Set New<br><br>Append<br><br>Delete                                                                                                                                                                                                                                                           |
| Help | Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in:<br>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 |

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|                |                                                                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Field Name     | Forbidden Signature : 0      0      No Keys                                                                                                                                                                                                                                                                |
| Possible Value | Details<br><br>Export<br><br>Set New<br><br>Append<br><br>Delete                                                                                                                                                                                                                                           |
| Help           | Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in:<br>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<br><br>Append                                                                                                                                                                                                                                                                                       |
| Help           | Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in:<br>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<br><br>Append                                                                                                                                                                                                                                                                                       |
| Help           | Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate in:<br>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 |

## 3.13 BOOT

Boot mode select = UEFI

| Main                                                            | Advanced | Chipset | Boot | Security        | Save & Exit            |
|-----------------------------------------------------------------|----------|---------|------|-----------------|------------------------|
| Boot Configuration                                              |          |         |      | Item            | help                   |
| 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                            |          |         |      |                 | →←: Select Screen      |
| UEFI Hard Disk Drive BBS Priorities                             |          |         |      |                 | ↑↓: Select Item        |
| UEFI NETWORK Drive BBS Priorities                               |          |         |      |                 | Enter: Select          |
| UEFI USB CD/DVD ROM Drive BBS Priorities                        |          |         |      |                 | +/- : Change Opt       |
| UEFI USB Hard Disk Drive BBS Priorities                         |          |         |      |                 | F1: General Help       |
| UEFI USB KEY Drive BBS Priorities                               |          |         |      |                 | F2: Previous Values    |
|                                                                 |          |         |      |                 | F3: Optimized Defaults |
|                                                                 |          |         |      |                 | F4: Save & Reset       |
|                                                                 |          |         |      |                 | ESC: Exit              |
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## 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,<br>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,<br>USB KEY, USB Floppy, USB Lan |
| Help           | Set the system boot order                                                              |

| Field Name     | Fast Boot                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Default Value  | [Enabled]                                                                                                                                           |
| Possible Value | Enabled<br>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. |

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

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

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

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

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

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

## 3.14 SAVE & EXIT

| Main                                                            | Advanced | Chipset | Security | Boot | Save & Exit            |
|-----------------------------------------------------------------|----------|---------|----------|------|------------------------|
| Save Options                                                    |          |         |          |      | Item help              |
| Save Changes and Exit                                           |          |         |          |      |                        |
| Discard Changes and Exit                                        |          |         |          |      |                        |
| Save Changes and Reset                                          |          |         |          |      |                        |
| Discard Changes and Reset                                       |          |         |          |      |                        |
| Restore Defaults                                                |          |         |          |      | →←: Select Screen      |
|                                                                 |          |         |          |      | ↑↓: Select Item        |
|                                                                 |          |         |          |      | Enter: Select          |
|                                                                 |          |         |          |      | +/- : Change Opt       |
|                                                                 |          |         |          |      | F1: General Help       |
|                                                                 |          |         |          |      | F2: Previous Values    |
|                                                                 |          |         |          |      | F3: Optimized Defaults |
|                                                                 |          |         |          |      | F4: Save & Reset       |
|                                                                 |          |         |          |      | ESC: Exit              |
| Boot Override                                                   |          |         |          |      |                        |
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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    |                                                        |