Avalue Intelligent Display & System

HID-1337

13.3” Alder Lake-N Medical Multi-Touch Panel PC

User Manual

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Instructions for the User

The document combines text and illustrations, providing a comprehensive overview of the system. The information is presented as a sequential steps of actions, allowing the user to learn directly how to use the device. The text provides explanations and instructs the user step-by-step in the practical use of the product, with short, clear instructions in an easy-to-follow sequence.

- Non-patient at least 18 years old with basic reading experience.
- Read and understand "westernized Arabic numbers" when written in Arial font
- Can distinguish human organs and understand hygiene.
- Understand languages as specified in the marketing plan (Ext: Chinese, English….).
- For general function operation and maintenance, no special experiences are required.
- Mechanical tool operation knowledge is needed when installing mounting. Please contact a service technician or your retailer.

Purposes and Applications

HID-1337 is intended to be used in healthcare institutions for general purpose as an assisting device for data access – patient information, medical records, media services, and so on. The product is designed for general or special use in the hospital environment.

Operating principle

A Medical Panel PC has four main components: the arithmetic logic unit (ALU), the control unit, the memory, and the input and output devices (collectively termed I/O). These parts are interconnected by buses, often made of groups of wires.

The control unit, ALU, and registers are collectively known as a central processing unit (CPU). Inside each of these parts are thousands to trillions of small electrical circuits which can be turned off or on by means of an electronic switch. Each circuit represents a bit (binary digit) of information so that when the circuit is on it represents a "1", and when off it represents a "0" (in positive logic representation). The circuits are arranged in logic gates so that one or more of the circuits may control the state of one or more of the other circuits.

Definitions

Warning! *A WARNING statement provides important information about a potentially hazardous situation which, if not avoided, could result in death or serious injury.*

Caution! *A CAUTION statement provides important information about a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the equipment or other property.*

Attention! *Un avertissement fournit des informations importantes sur une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner la mort ou des blessures graves.*

Précaution! *Une mention ATTENTION fournit des informations importantes sur une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures mineures ou modérées pour l'utilisateur ou le patient ou des dommages à l'équipement ou à d'autres biens.*

Note! *A NOTE provides additional information intended to avoid inconveniences during operation.*

Safety Instructions

1. Strictly follow these Instructions for Use, please read these safety instructions carefully.
2. Remind to keep this User's Manual for later reference, and any use of the product requires full understanding and strict observation of all portions of these instructions. Observe all WARNINGS and CAUTIONS as rendered throughout this manual and on labels on the equipment.
3. Repair of the device may also only be carried out by MANUFACTURER.

Warning! *Because of the danger of electric shock, never remove the cover of a device while it is in operation or connected to a power outlet.*

Attention! *En raison du risque de choc électrique, ne retirez jamais le couvercle d'un appareil lorsqu'il est en fonctionnement ou connecté à une prise de courant.*

4. If one of the following situations arises, please refer to the solutions:

Problem	Solution
The power cord or plug is damaged.	Contact manufacturer for further inspection.
Liquid has penetrated equipment.	Try to dry up excess liquid and contact manufacturer for further inspection.
The equipment does not power on.	1. Check the adapter model to see if it is correct. 2. Confirm whether power adapter and power cord is properly connected. 3. If the problem still exists, contact manufacturer for further inspection.
The equipment has been damaged.	1. Power on the equipment to confirm whether the function is still normal. 2. Contact manufacturer for repairment if needed.

5. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning and keep this equipment away from humidity.

Caution! *To avoid short-circuiting and otherwise damaging the device, do not allow fluids to come in contact with the device. If fluids are accidentally spilled on the equipment, remove the affected unit from service as soon as possible and contact the service personnel to verify that patient safety is not compromised.*

Précaution! *Pour éviter tout court-circuit et autrement endommager l'appareil, ne laissez pas de liquides entrer en contact avec l'appareil. Si du liquide est accidentellement renversé sur l'équipement, retirez l'unité affectée du service dès que possible et contactez le personnel d'entretien pour vérifier que la sécurité du patient n'est pas compromise.*

6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.

Caution! *To prevent overheating, do not cover the openings and place the device in direct sunlight or near radiant heaters.*

Précaution! *Pour éviter la surchauffe, ne couvrez pas les ouvertures et placez l'appareil à la lumière directe du soleil ou à proximité de radiateurs rayonnants.*

7. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet. Position the power cord so that people cannot step on it. Do not place anything over the power cord. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over voltage.

Caution! *Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20° C (-4° F) or above 60° C (140° F). This may damage the equipment.*

Précaution! *Ne laissez pas cet équipement dans un environnement non contrôlé où la température de stockage est inférieure à -20 ° C (-4 ° F) ou supérieure à 60 ° C (140 ° F). cela pourrait endommager l'équipement.*

8. If your computer is losing dramatic time or the BIOS configuration reset to default, the battery has no power.

Caution! *Do not replace battery yourself. Please contact* MANUFACTURER*. The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacture. Discard used batteries according to the manufacturer's instructions.*

Précaution! *Ne remplacez pas la batterie vous-même. Veuillez contacter le FABRICANT. L'ordinateur est équipé d'un circuit d'horloge en temps réel alimenté par batterie. Il existe un risque d'explosion si la batterie n'est pas remplacée correctement. Remplacez uniquement par un type identique ou équivalent recommandé par le fabricant. Jeter les piles usagées conformément aux instructions du fabricant.*

9. Improper installation of VESA mounting can result in serious personal injury! VESA mount installation should be operated by professional technician, please contact the service technician or your retail if you need this service.

10. Environmental protection: follow national requirements to dispose of unit.

11. Maintenance: to properly maintain and clean the surfaces, use only the approved products or clean with a dry applicator.

12. Make sure the user not to contact SIP/SOPs and the patient at the same time.

13. When networking with electrical devices, the operator is responsible for ensuring that the resulting system meets the requirements set forth by the following standards:

– EN 60601-1 (IEC 60601-1)
Medical electrical equipment
Part 1: General requirements for safety

– EN 60601-1-1 (IEC 60601-1-1)
Medical electrical equipment
Part 1-1: General requirements for safety
Collateral standard: Safety requirements for Medical electrical systems

– EN 60601-1-2 (IEC 60601-1-2)
Medical electrical equipment
Part 1-2: General requirements for safety
Collateral standard: Electromagnetic compatibility; Requirements and tests

MEDICAL - GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE ANSI/AAMI ES60601-1 CAN/CSA-C22.2 No. 60601-1

14. Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.) Furthermore, all configurations shall comply with the system standard IEC 60601-1-1. Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60601-1 certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.

Caution! *Use suitable mounting apparatus to avoid risk of injury.*

Précaution! *Utilisez un appareil de montage approprié pour éviter tout risque de blessure.*

15. Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your country.

Note! *Environmental protection Follow national requirements to dispose of unit.*

Warning! *Do not modify this equipment without authorization of the manufacturer.*

Warning! *To avoid risk of electric shock, this equipment must only be connected to a supply main with protective earth.*

Caution! *This adapter EDAC EM11011M(18) is a forming part of the medical device.*

Attention! *Ne modifiez pas cet équipement sans l'autorisation du fabricant.*

Attention! *Pour éviter tout risque de choc électrique, cet équipement ne doit être connecté qu'à une alimentation avec terre de protection.*

Précaution! *Cet adaptateur EDAC EM11011M(18) fait partie intégrante du dispositif médical.*

16. The design of Internal Smart battery is considered for backup purpose while system accidently loosing main power supply in any situation, it will supply max.6mins of the operating time to keep let user backup the data and shut down the system properly.

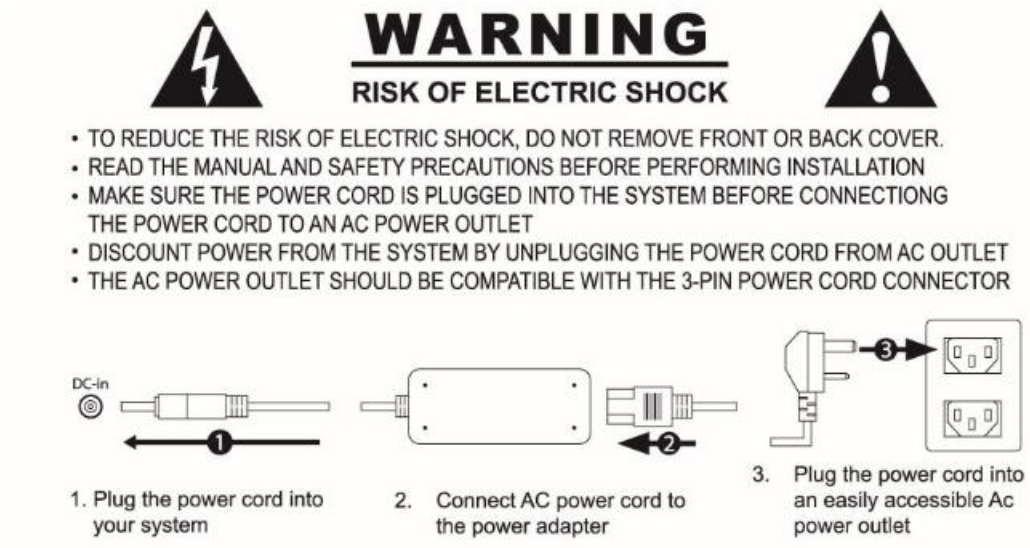
Caution! *Do not attempt to disassemble the battery pack. There is danger of excessive temperatures, fire or explosion if the battery is incorrectly replaced. Please contact with MANUFACTURER to replace battery packs.*

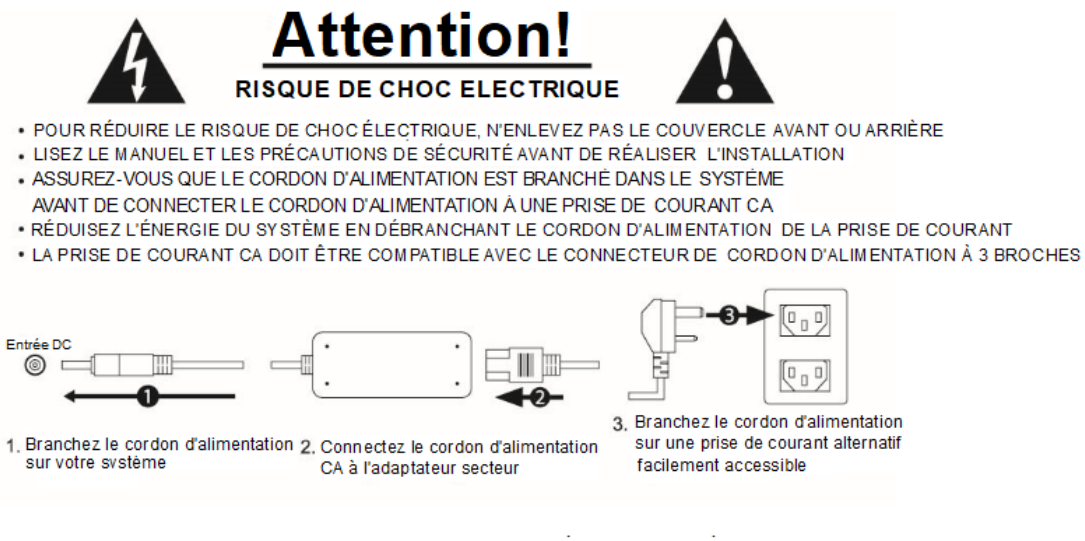
Caution! *Do not use the power adapter that isn't made for the equipment, supplying the equipment with inappropriate voltage may cause harm to the battery (if any) or even worse burn the equipment.*

Précaution! *Do not attempt to disassemble the battery pack. There is danger of excessive temperatures, fire or explosion if the battery is incorrectly replaced. Please contact with MANUFACTURER to replace battery packs.*

Précaution! *Do not use the power adapter that isn't made for the equipment, supplying the equipment with inappropriate voltage may cause harm to the battery (if any) or even worse burn the equipment.*

Caution! *Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions."*
Attention! *Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les piles usagées selon les instructions*

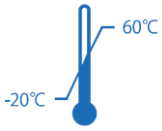
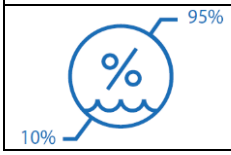




17. The product is not used in Category AP or Category APG in an anesthetic gas environment.

Explanation of Graphical Symbols

	Warning: dangerous voltage
	Caution
	Note
	ISO 7000-1641: Follow operating instructions or Consult instructions for use.
	Direct current.
	Equipotential
	Stand-by
	US Conformance
	Follow the national requirements for disposal of equipment.
	Stacking layer limit
	This side up
	Fragile Packaging

	Beware of water damage, moisture-proof
	Carton recyclable
	Handle with care
	Storage &Transportation Temperature: -20°C ~ 60°C
	Storage &Transportation Humidity: 10% ~ 95%

Disposing of your old product

Within the European Union

EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household

waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself. The mark on electrical and electronic products only applies to the

current European Union Member States.

Federal Communication Commission Interference Statement

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from the one the receiver is connected to.**
- **Consult the dealer or an experienced radio/TV technician for help.**

Notice:

(1) A Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord by used.

(2) Use only shielded cables to connect I/O devices to this equipment.

(3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Shielded interface cables must be used in order to comply with emission limits.

Additional Information and Assistance

Contact your distributor, sales representative for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages
- This equipment is a source of electromagnetic waves. Before use please, make sure that there are not EMI sensitive devices in its surrounding which may malfunction therefore.

Environmental protection

- Follow national requirements to dispose of unit.

Manufacturer

Avalue Technology Inc.
7F, No.79, Lide St., Zhonghe District, New Taipei City, 235, Taiwan
TEL: +886-2-8226-2345
FAX: +886-2-8226-2777
Web: www.avalue.com
Information: sales@avalue.com

CONTENT

1. HID-1337 Multi Touch Medical Panel PC

Features

In this chapter, you will get to know all features of our HID-1337 Multi Touch Medical Panel PC.

1.1 Packing List

- 1 x HID-1337 Medical Panel PC
- 1 x Medical power adapter

Power cords:

● Utilize a UL-listed detachable power cord, 3-wire, type SJ or equivalent, 18 AWG min., rated 250 Vmin., provided with a hospital-grade type plug 5-15P configuration for 120V application, or 6-15P for 240V application.

● Do not overload wall outlets and extension cords as this may result in fire or electric shock.

● Mains lead protection (U.S.: Power cord): Power cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them, paying particular attention to cords at plugs and receptacles.

● The power supply cord should be replaced by the designated operator only at all time.

●Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your particular country.

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1.2 Specifications

Component	
SBC	HID-1337 Mother Board
Daughter Board	1. AUX LED Light Bar Board 2. Side USB 3.2 Gen1 x 2ports
Processor	Onboard Intel® Alder Lake-N Processor Intel® Core™ i3-N305, 6M Cache, up to 3.80 GHz (9/12W) Intel® Processor N-series N97, 6M Cache, up to 3.60 GHz (12W) Intel Atom® Processor X Series X7425E, 6M Cache, up to 3.40 GHz (12W)
CPU Cooler (Type)	Passive
System Memory	1 x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 16GB
System Fan	Fanless
I/O Chipset	EC-ITE: IT5782VG
Watchdog Timer	H/W reset, 1sec. – 65535sec./min.1sec. or 1min. step
H/W Status Monitor	CPU & system temperature monitoring and Voltages monitoring
TPM	TPM 2.0 (Onboard NuvoTon NPCT754AABYX support SPI TPM 2.0)
Speaker	5W x 2 (Y&G 38CP04-Y14.5B)
Wireless LAN	Optional Wi-Fi + Bluetooth 5.0 USB Module (Intel Wi-Fi 6E AX210) ACC-M2-WIFIBT-19R
Bluetooth	Optional Wi-Fi + Bluetooth 5.0 USB Module
Operating System	Win 10/11 Linux
Expansion Card	1 x M.2 (Key-B, 2242/3042/3052, SATA only) 1 x M.2 (Key-E, 2230, PCIex1, USB2.0)
Storage	
Other Storage Device	1 x M.2 Key-B 2242/3042/3052 for M.2 SATAIII SSD
Panel	
LCD Panel	AUO G133HAN03.1
LCD Control Board	N/A (LED driver for backlight contains within panel)
Touch Screen	13.3" 10 points PCAP (YoungFast)
Touch Controller	EETI
Rear I/O	
Serial Port	1 x DB-9 COM1 (RS-232(default)/422/485, selectable by BIOS & JUPMER, RS-485 supports Auto Flow, Pin-9 selected by JUPMER for Ring(default)/+5V/+12V)
USB Port	4 x USB 3.2 at bottom 2 x USB 3 at side 1 X USB Type C (w/ PD, USB, Display function) PD Output: 5V/3A (15W)

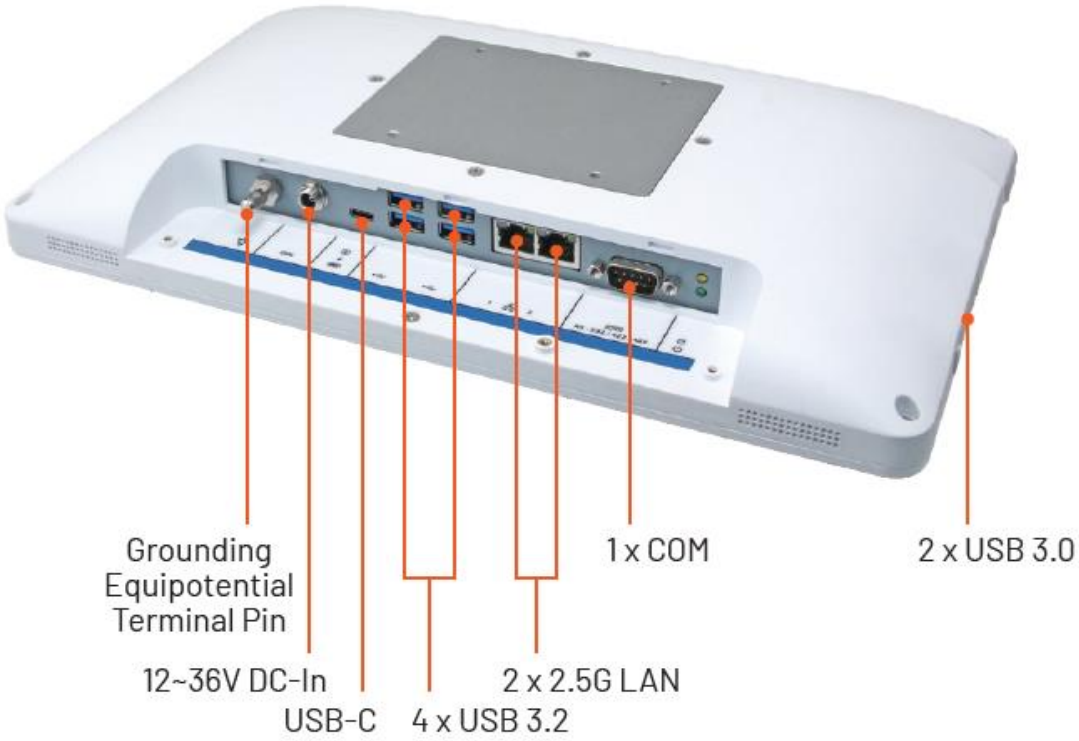
	(Without PD Input function, No power receiving function)
LAN Port	2 x Intel® I226LM 2.5 Gigabit Ethernet
Wireless LAN Antenna	2 x PCB Antenna
Indicator Light	HDD LED (Yellow), Power LED (Green)
DC in Connector	Screw Type DC Jack
Onboard I/O	
COM	JRI1/2: 3 x 2 header, pitch 2.00mm jumper JCOM1_SEL1: 4 x 3 header, pitch 2.00mm (COM1 RS-232/422/485 mode)-jumper
USB	JUSB1& JUSB2 for 2.0
Buzzer	With buzzer onboard
Front Panel	JFP1:5 x 2 wafer, pitch 2.00mm (power button, power LED, light bar 5 pin)
RTC Battery	1 x 2-Pin Wafer (1.25mm)
AT/ATX Selector	1 x 3-Pin Header (2.0mm), Default is ATX
Clear CMOS	1 x 3-Pin Header (2.0mm)
LVDS/eDP	LVDS: 1920 x 1080 Dual channel 18/24-bits LVDS Co-layout eDP signal, BOM option, use the same connector (eDP support up to 2K)
LCD Backlight Brightness	JBKL1: 5 x 1 wafer, pitch 2.00mm JBKLSEL1: 3 x 1 header, pitch 2.00mm- jumper (DC or PWM mode)
Touch	JUSB1: 1 x 1 x 5 pin, pitch 2.00mm wafer(for P-cap touch)
BIOS SPI	JSPI1: 4 x 2 header, pitch 2.00mm
EC Debug	JEC1: 3 x 1 header, pitch 2.00mm
Audio	Realtek ALC888S
DC-Input	Lockable DC Jack
Amp Connector	JSPR1: 2 x 1 wafer, pitch 2.0mm JSPL1: 2 x 1 wafer, pitch 2.0mm
Power Requirement	
DC Input Voltage	Wide Range DC Power Input from 12~36V
Power Mode	AT/ATX (Default ATX)
Power Button	Side power button with LED
Wake on Mode	Wake on LAN (specify condition, ex. S3/S4/S5) Wake on Ring
Power Connector Type	Lockable DC Jack
Power Adapter	72W(24V/3A) medical adapter EDAC EM10686V(XX)
Mechanical	
Dimension	198 x 325 x 38 mm
Weight	1.8 kg

Construction- Front	Plastic
Construction- Rear	Plastic
Thermal Solution	Fanless
Reliability	
Dust and Rain Test	IP65 Front, IPX1 Rear
Vibration Test	Random Vibration Operation Reference IEC60068-2-64 Testing procedures Test Fh : Vibration boardband random Test 1 Test PSD : 0.00454G²/Hz , 1.5 Grms 2 Test frequency : 5~500 Hz 3 Test axis : X,Y and Z axis 4 Test time : 30 minutes each axis 5 System condition : operation mode 6 Test curve Sine Vibration Test Reference IEC60068-2-6 Testing procedures Test Fc : Vibration sinusoidal 1 Test Acceleration : 2G 2 Test frequency : 5~500 Hz 3 Sweep：1 Oct/ per one minute. (logarithmic) 4 Test axis : X,Y and Z axis 5 Test time :30 min. each axis 6 System condition : Non-Operating mode 7 Test curve Package Vibration Test: Reference IEC60068-2-64 Testing procedures Test Fh : Vibration boardband random Test 1 Test PSD : 0.026G²/Hz , 2.16 Grms 2 Test frequency : 5~500 Hz 3 Test axis : X,Y and Z axis 4 Test time : 30 minutes each axis 5 Test curve
Mechanical Shock Test	With CF/SSD: 10Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	Package drop test Reference ISTA 2A, Method : IEC-60068-2-32 Test:Ed Test Ea : Drop Test 1 Test phase : One corner, three edges, six faces 2 Test high : 3 Package weight : 4 Test drawing

Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Storage Temperature	-20°C ~ 60°C (14°F ~ 140°F)
Atmospheric Pressure	700~1060hPa

Note: Specifications are subject to change without notice.

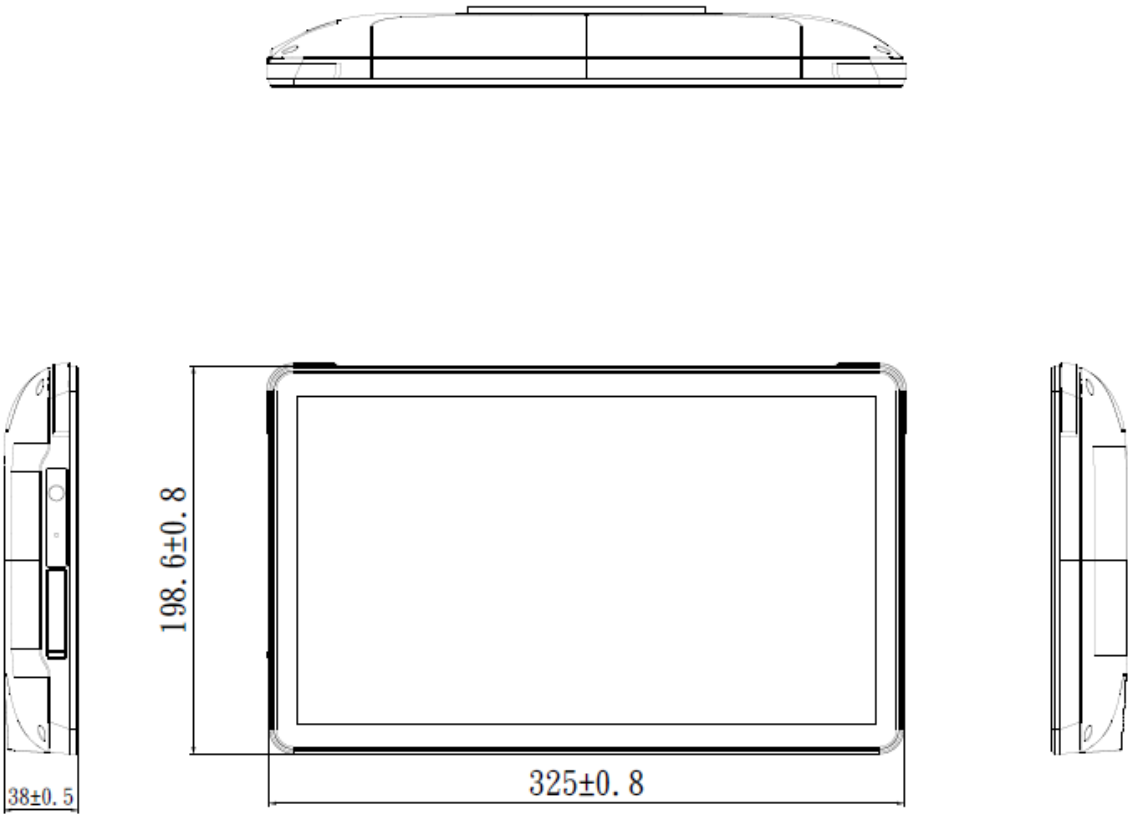
1.3 Rear & Bottom view

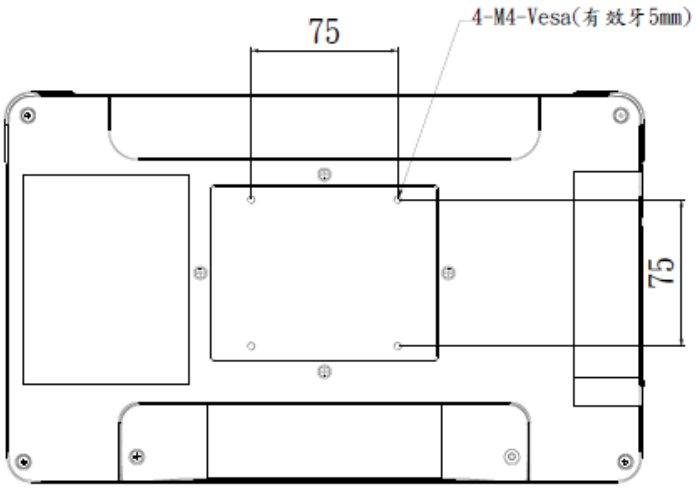


I/O port functions description:
Equipotential Terminal Pin: for connect hospital ground/earth
12~36V DC-IN: for Power adapter DC jack
USB Type C: USB Type C connector (Output for USB 3.1 & Display)
USB: 4 x USB 3.2 at bottom, 2 x USB 3.0 at side
LAN1/2: for internet connection (Using a shielded LAN cable is advised for compliance with the EN55032 and IEC61000-4-6 standards.)
COM: for Mouse/Ethernet..etc serial port device
HDD LED: indicate HDD activities status
PWR LED: indicate power status

Note! *Equipotential terminal needs to be linked to the hospital ground/earth system before booting the system to protect both operator and system.*

1.5 System Dimensions





(Unit: mm)

2. Setting Up HID-1337 Multi Touch Panel PCs

This chapter gives instructions on how to set up HID-1337 Multi Touch Panel PC and how to connect different cables.

2.1 VESA Mounting
2.2 Cleaning and Disinfecting

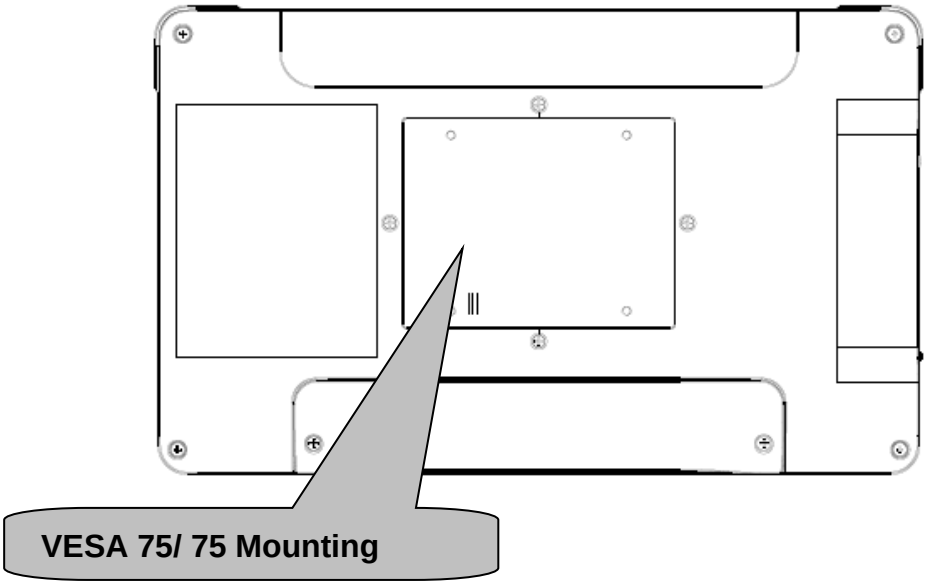
2.1 VESA Mounting

The HID-1337 also provides standard VESA mounting to help system integrators conveniently integrate the panel PC into their system.
Never use mounting brackets except as provided by Avalue to prevent unreliable mounting of the HID-1337. VESA mount installation should be carried out by a professional technician; please contact a service technician or your retailer if you need this service.
Installation instructions follow:

1. First attach the wall-mounting to the heat-sink of the HID-1337, securing it in place with four of the M4 x 6mm screws provided.
2. Mount the on the wall, stand or other flat surface.

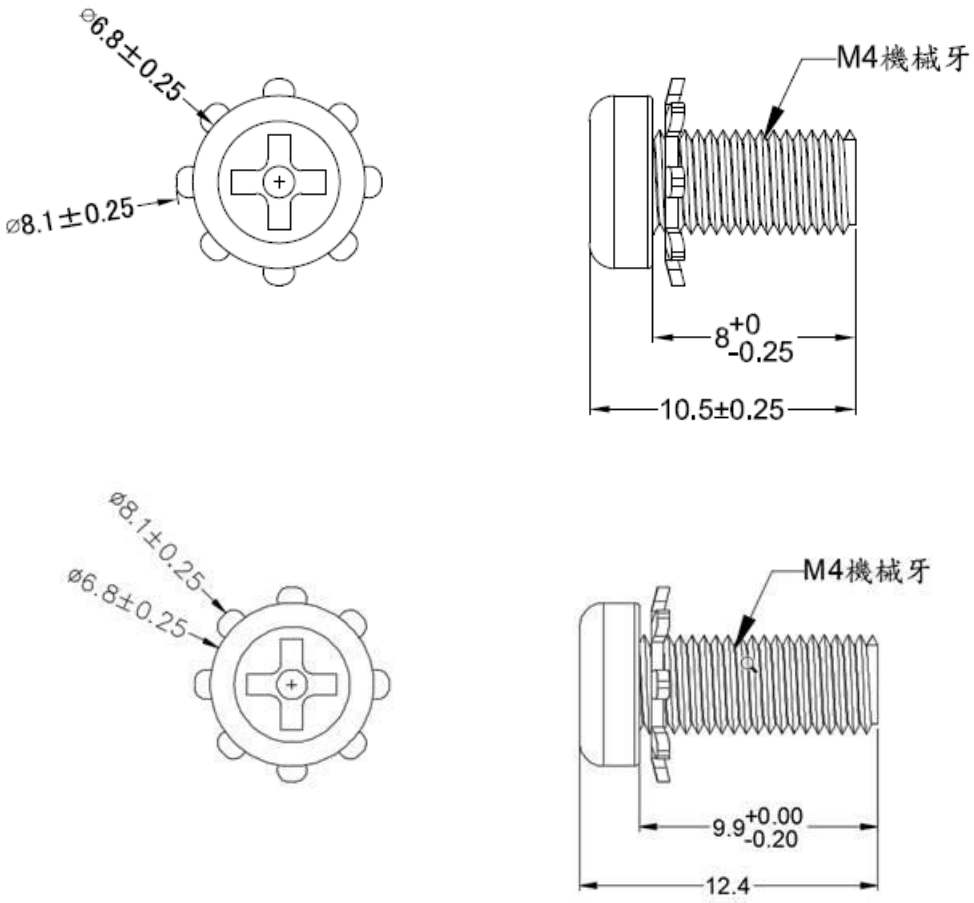
Warning! *Be sure to secure the screws of the mounting bracket tightly. A loose joint between the HID-1337 and mounting bracket may create danger of injury.*

Attention! *Assurez-vous de bien serrer les vis du support de montage. Un joint lâche entre le HID-1337 et le support de montage peut créer un risque de blessure.*



Suggested Screw type for mounting

Note: 4 pieces of M4 x 8mm~10mm screws

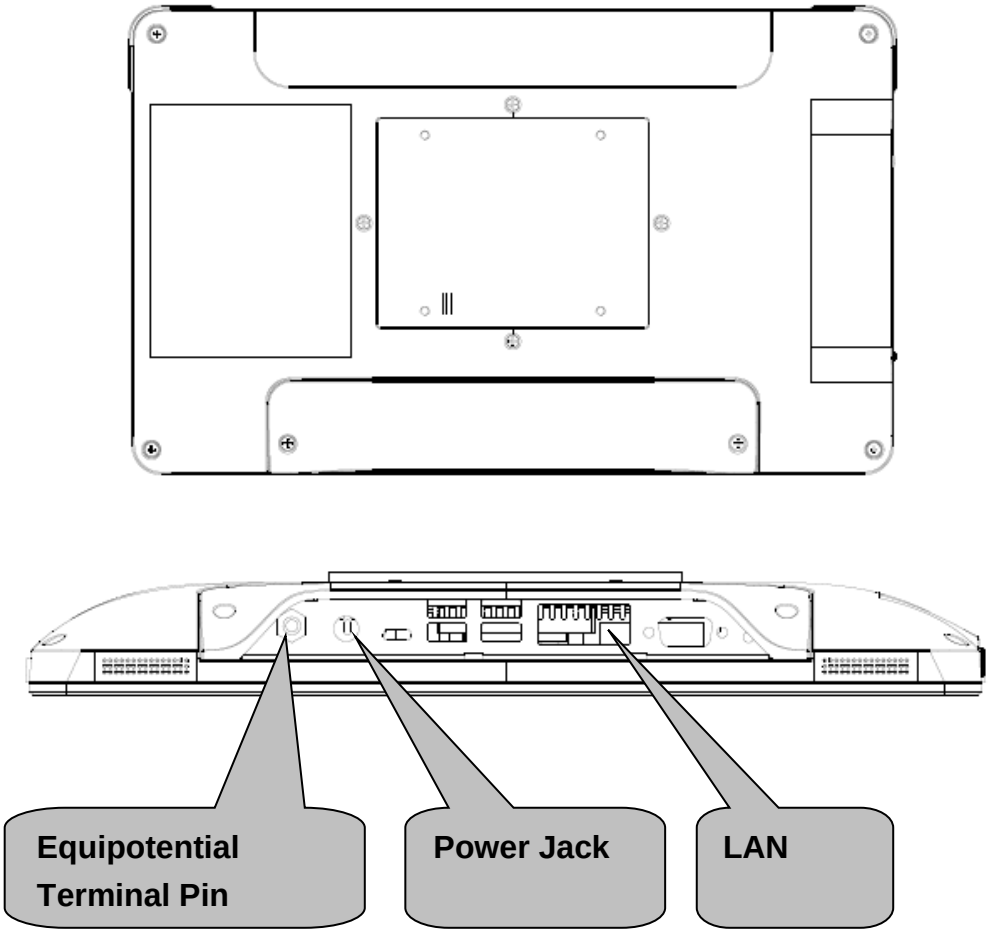


Warning! Use suitable mounting apparatus to avoid risk of injury.

Attention! Utilisez un appareil de montage approprié pour éviter tout risque de blessure.

2.2 Cabling

1. Power Cable
2. Equipotential Terminal Pin



Follow below step Connecting the Ground pin

1. With system ready, find the equipotential terminal on the rear side of the HID-1337. An equipotential terminal is provided to optionally connect to a hospital ground/earth system.
2. Prepare grounding cable and the other terminal links to the hospital ground/ earth system.
3. Grounding cable plug with Equipotential Terminal

Please use shielded LAN cables for compliance with the EN55032 and IEC61000-4-6 standards.

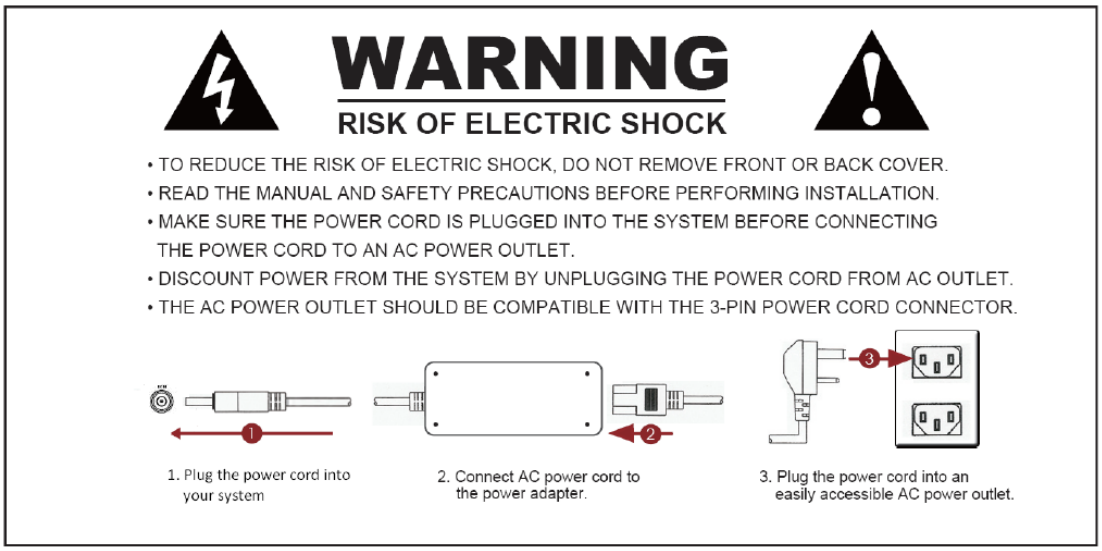
Please follow below steps to connect power cable to system.

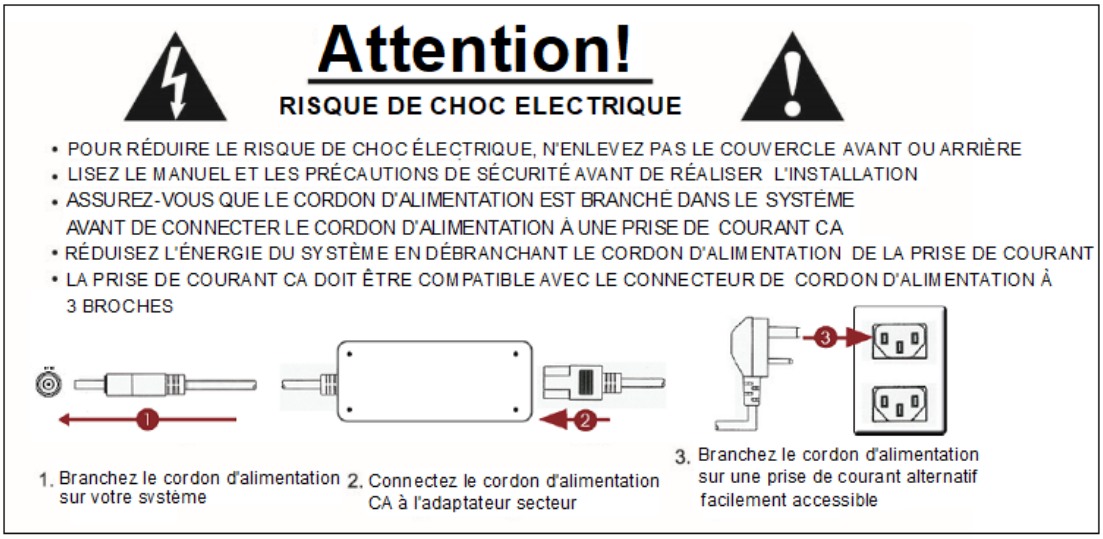
The HID-1337 could only be powered by a DC power adapter (EDAC Model no. EM11011M(18)). Be sure to always handle the power cords by holding the plug ends only.

Follow these procedures in order:

1. Connect the female end of the power adapter to the DC jack of the panel PC.
2. Connect the female end of the power cord to the DC power adapter.
3. Connect the 3-pin male plug of the power cord to an electrical outlet.

External equipment intended for connection to signal input/output or other connectors, shall comply with relevant UL standards (e.g. UL 60950-1 for IT equipment and ANSI/AAMI ES60601-1/ IEC 60601-1 series for medical electrical equipment





2.3 Cleaning and Disinfecting

During normal use of HID-1337, the device may become dirty and should be regularly cleaned.

Cleaning Instructions

1. Turn off the computer before starting clean up. This way, you can see any dirt on the screen; the brightness of the monitor may make you miss some areas.
2. Wet a soft, lint-free or microfiber cloth with cleaning agent per manufacturer's instructions or hospital protocol. Wipe the medical PC in a gentle motion to remove dust, oil, or fingerprint smudges.
3. Wipe any moisture excess with a dry lint-free cloth to finish cleaning before turning the computer back on.

Cleaning Tools

Below is a list of some items that may be needed or used when cleaning the medical PC or medical PC peripherals.

Please keep in mind that some components in medical PC components may only be cleaned using a product designed for cleaning that component.

Cleaning agent list: chemical disinfectants which have been tested on the medical PC

No.	Cleaning agent
1	Acetic Acid
2	Acetone
3	Alcohol
4	Alcohol 70%
5	Ammonia
6	Artificial Perspiration (JIS K6772)
7	Boil Water
8	Caustic Soda
9	Cidex
10	Cold Cream Applied
11	Detergent (Kao Mypet) Applied
12	Ethanol
13	Gasoline
14	Glycerine
15	Green tinctured soap
16	Hydrochloric Acid
17	Incidin liquid
18	Incidin plus

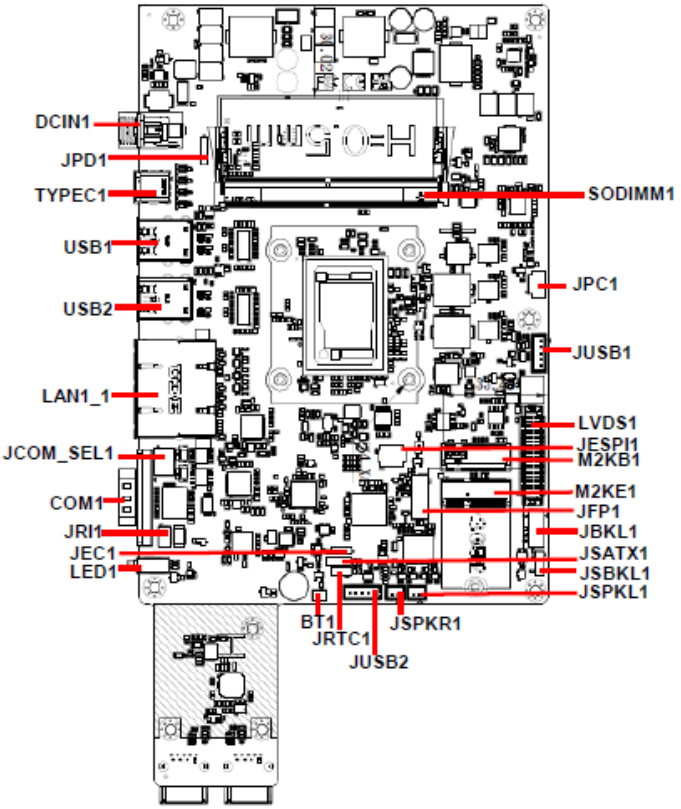
19	Isopropyl alcohol
20	Kerosene
21	Lanoline Applied
22	Methanol
23	Mikrozid liquid
24	Nitric Acid
25	Paraffin Oil
26	Propanol
27	Solution of salt
28	Sulfuric Acid
29	Toluene
30	Vaseline Applied
31	Virkon and water (1:100)
32	Windex

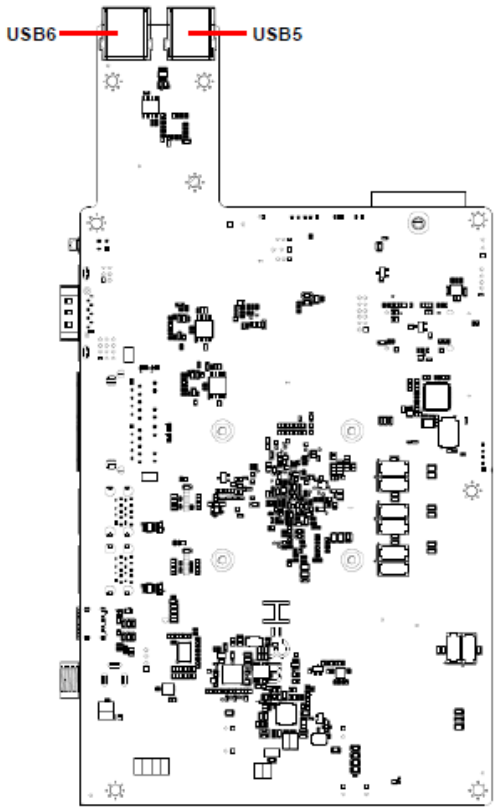
Caution!

- *Do not immerse or rinse the HID-1337 or its peripherals. If you accidentally spill liquid on the device, disconnect the unit from the power source. Contact your Biomed Department regarding the continued safety of the unit before placing it back in operation.*
- *Do not spray cleaning agent on the chassis.*
- *Do not use disinfectants that contain phenol. Do not autoclave or clean the HID-1337 or its peripherals with strong aromatic, chlorinated, ketone, ether, or Esther solvents, sharp tools or abrasives. Never immerse electrical connectors in water or other liquids.*

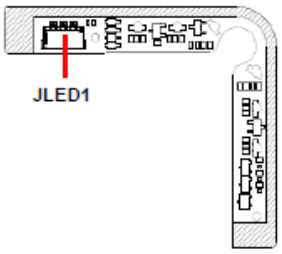
3. Hardware Configuration

3.1 HID-1337 MB Overviews





3.2 HID-1337 DB-A Overviews



3.3 HID-1337 MB Jumper and Connector list

Jumpers

Label	Function	Note
JRTC1	Clear CMOS	3 x 1 header, pitch 2.00 mm
JSBKL1	LCD backlight brightness adjustment	3 x 1 header, pitch 2.54 mm
JSATX1	AT/ATX auto power on select	3 x 1 header, pitch 2.54 mm
JRI1	Serial port 1 pin9 signal select	3 x 2 header, pitch 2.00 mm
JCOM_SEL1	Serial port 1 – RS232/422/485 mode select	4 x 3 header, pitch 2.00 mm

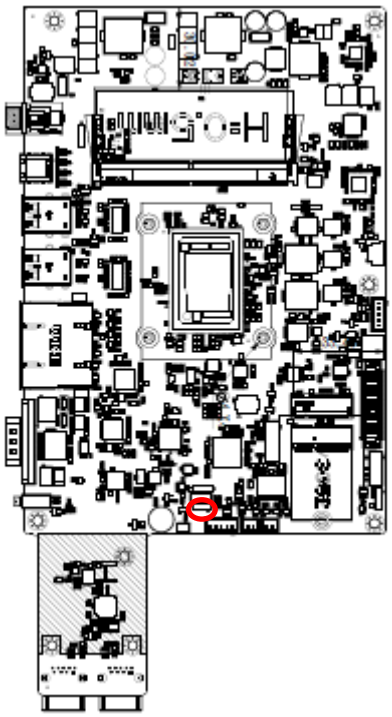
Connectors

Label	Function	Note
SODIMM1	262-Pin DDR5 4800MHz SO-DIMM	
COM1	Serial port 1 connector	
JSPKR1	Speaker_R	2 x 1 wafer, pitch 2.00 mm
JSPKL1	Speaker_L	2 x 1 wafer, pitch 2.00 mm
JBKL1	LCD Inverter connector	5 x 1 wafer, pitch 2.00 mm Matching Connector: JST PHR-5
LVDS1	LVDS/eDP connector	20 x 2 wafer, pitch 1.25 mm Matching Connector: Hirose DF13-40DS-1.25C
JFP1	Front Panel connector	6 x 2 wafer, pitch 2.00 mm
USB1/2	4 x USB3.2 connector	
JUSB1	On-board header for USB2.0	5 x 1 wafer, pitch 2.00 mm
JUSB2	On-board header for USB2.0	5 x 1 wafer, pitch 2.00 mm
TYPEC1	USB Type C connector	
LED1	HDD/Power LED indicator	

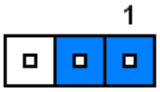
LAN1_1	2 x RJ-45 Ethernet	
BT1	Battery connector	2 x 1 wafer, pitch 1.25 mm
M2KB1	M.2 Key B slot	
M2KE1	M.2 Key E slot	
DCIN1	DC power-in connector	
JESPI1	ESPI connector	6 x 2 header, pitch 1.27 mm
JEC1	EC Debug connector	3 x 1 header, pitch 2.00 mm
JPD1	PD JTAG connector	4 x 1 header, pitch 2.00 mm
JPC1	PC connector	6 x 1 wafer, pitch 1.00 mm
USB5/6	2 x USB 3.2 Gen1 connector	

3.4 HID-1337 MB Jumpers & Connectors settings

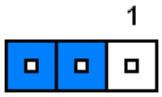
3.4.1 Clear CMOS (JRTC1)



Protect*

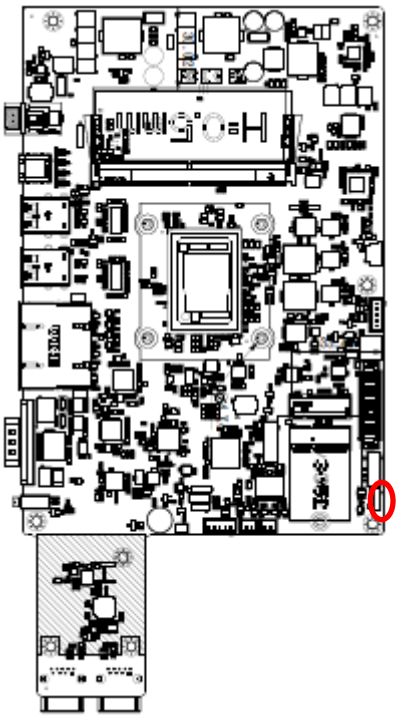


Clear CMOS

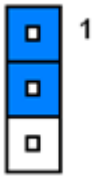


***Default**

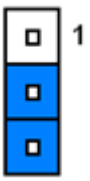
3.4.2 LCD backlight brightness adjustment (JSBKL1)



PWM Mode*

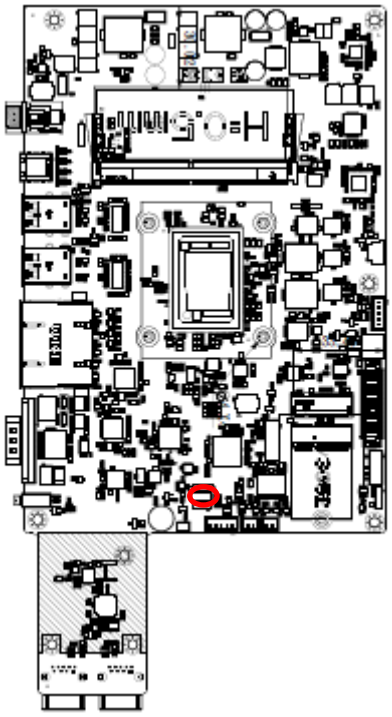


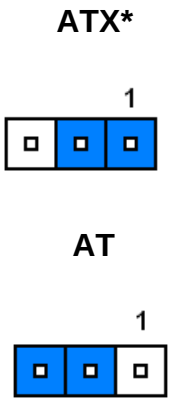
DC Mode



***** Default**

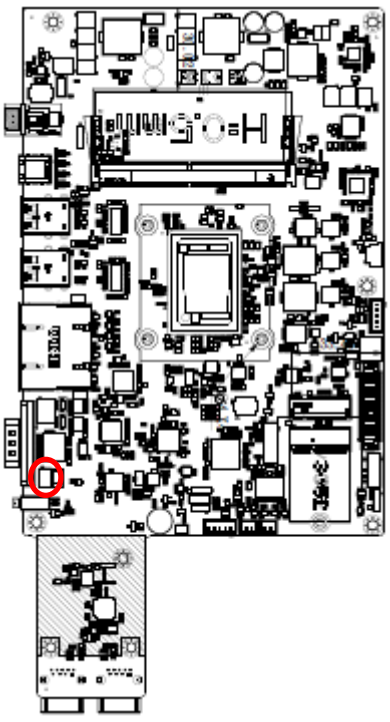
3.4.3 AT/ATX auto power on select (JSATX1)

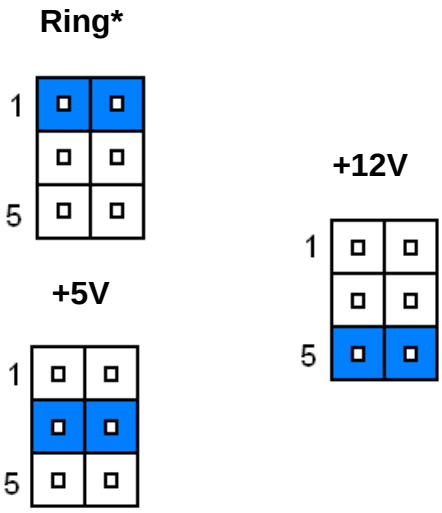




*** Default**

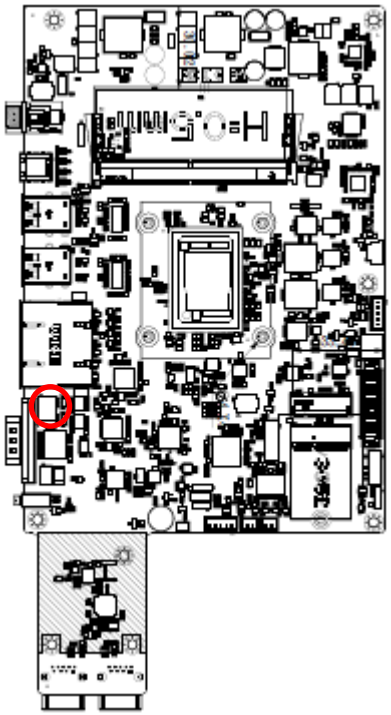
3.4.4 Serial port 1 pin9 signal select (JRI1)



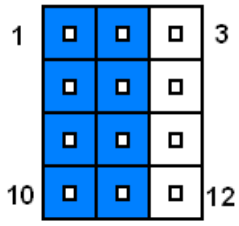


*** Default**

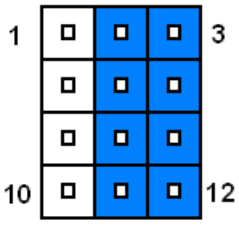
3.4.5 Serial port 1 – RS232/422/485 mode select (JCOM_SEL1)



RS-232*

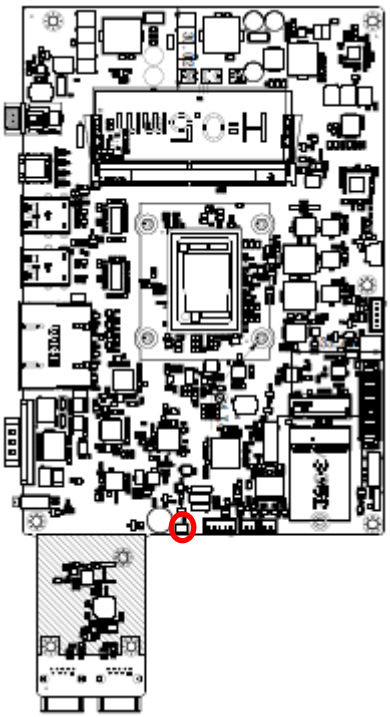


RS422/485



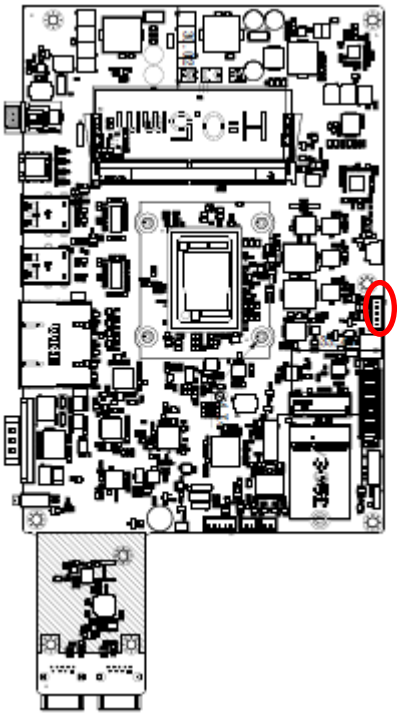
*** Default**

3.4.6 Battery connector (BT1)



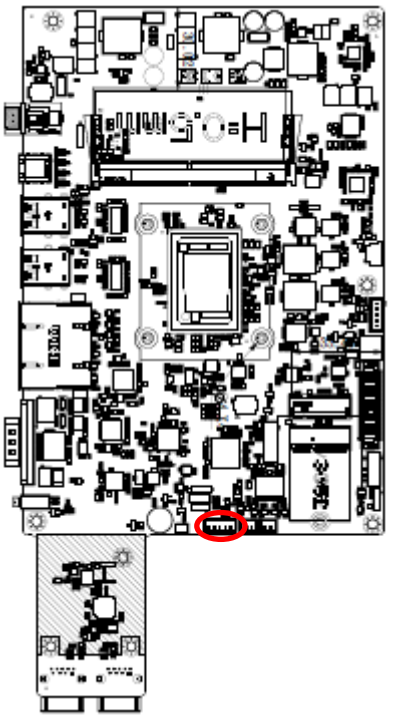
Signal	PIN
+RTCBATT	1
GND	2

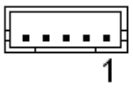
3.4.7 On-board header for USB2.0 (JUSB1)



Signal	PIN
+5VSB	1
USB2_R_DN7	2
USB2_R_DP7	3
GND	4
GND	5

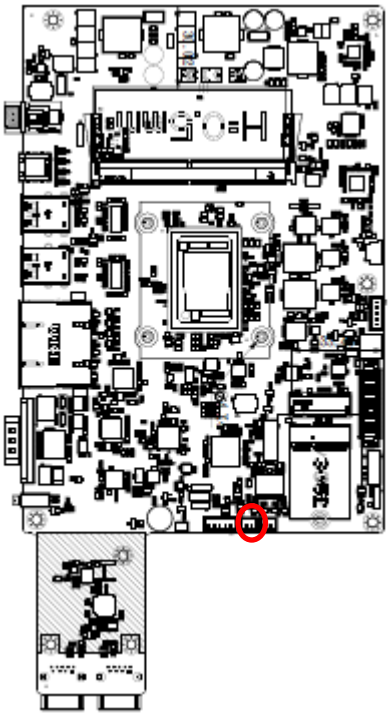
3.4.8 On-board header for USB2.0 (JUSB2)

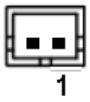




Signal	PIN
+5VSB	1
USB2_R_DN8	2
USB2_R_DP8	3
GND	4
GND	5

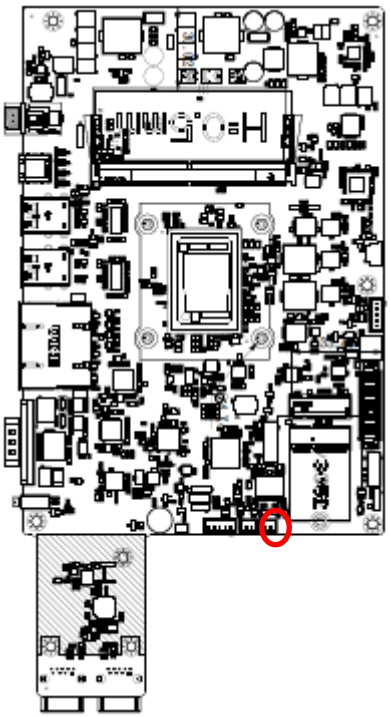
3.4.9 Speaker_R (JSPKR1)

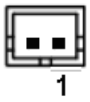




Signal	PIN
SPK_R+	1
SPK_R-	2

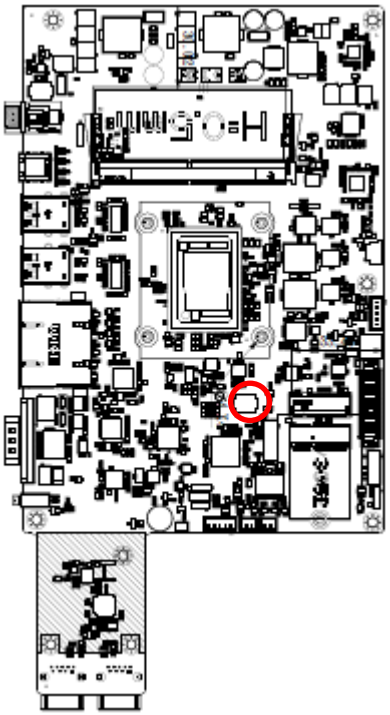
3.4.10 Speaker_L (JSPKL1)

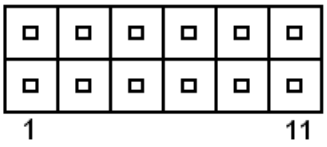




Signal	PIN
SPK_L+	2
SPK_L-	1

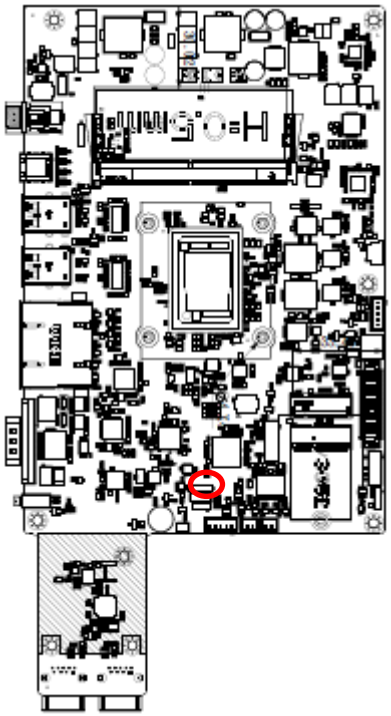
3.4.11 ESPI connector (JESPI1)

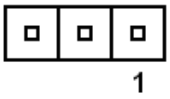




Signal	PIN	PIN	Signal
CN_ESPI_IO0	1	2	+3.3VSB
CN_ESPI_IO1	3	4	PLT_BUF_RST#
CN_ESPI_IO2	5	6	ESPI_CS#
CN_ESPI_IO3	7	8	CN_ESPI_CLK
NC	9	10	GND
ESPI_RST#	11	12	NC

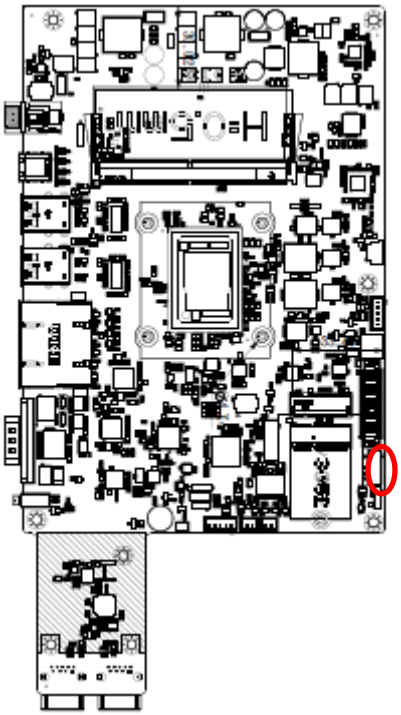
3.4.12 EC Debug connector (JEC1)





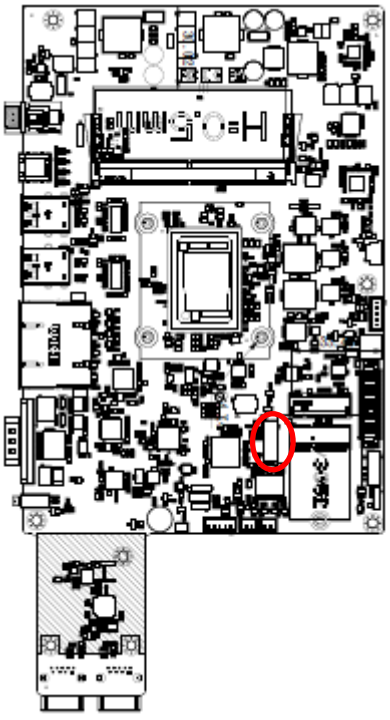
Signal	PIN
EC_SMDAT_DBG	1
EC_SMCLK_DBG	2
GND	3

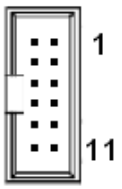
3.4.13 LCD Inverter connector (JBKL1)



Signal	PIN
+12V	1
GND	2
LVDS_BKLTEN	3
LVDS_BKLADJ	4
+5V	5

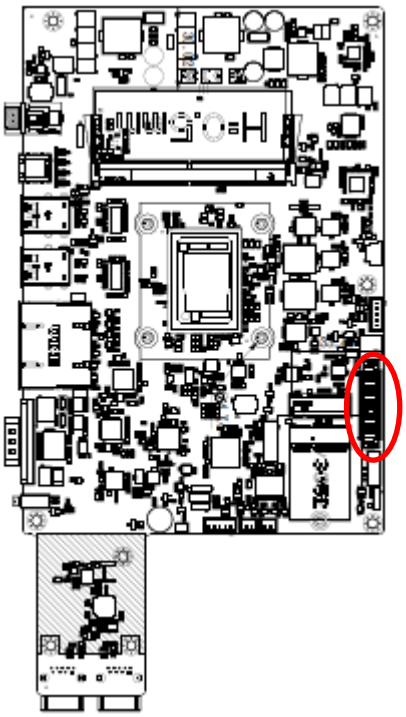
3.4.14 Front Panel connector (JFP1)

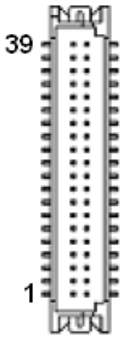




Signal	PIN	PIN	Signal
EXT_PWRBTN#	2	1	GND
EXT_SYSRST#	4	3	GND
+5VSB	6	5	PWR_LED-
LED_R_EN#	8	7	LED_Y_EN#
LED_G_EN#	10	9	NC
+5VSB	12	11	GND

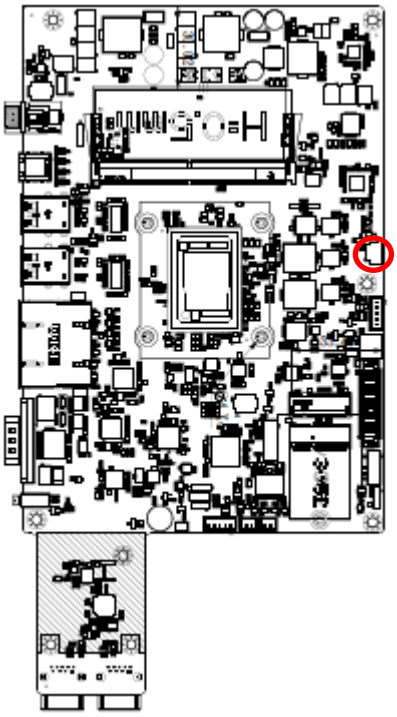
3.4.15 LVDS/eDP connector (LVDS1)

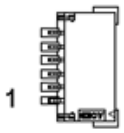




Signal	PIN	PIN	Signal
+12V	39	40	+12V
GND	37	38	GND
LVDS_CLK2N	35	36	LVDS_CLK1N/EPAUXN
LVDS_CLK2P	33	34	LVDS_CLK1P/EPAUXP
GND	31	32	GND
LVDS_DATAN7	29	30	LVDS_DATAN6
LVDS_DATAP7	27	28	LVDS_DATAP6
GND	25	26	GND
LVDS_DATAN5	23	24	LVDS_DATAN4
LVDS_DATAP5	21	22	LVDS_DATAP4
GND	19	20	GND
LVDS_DATAN3	17	18	LVDS_DATAN2/Edpn0
LVDS_DATAP3	15	16	LVDS_DATAP2/eDPP0
GND	13	14	GND
LVDS_DATAN1/eDPN1	11	12	LVDS_DATAN0
LVDS_DATAP1/eDPP1	9	10	LVDS_DATAP0/eDP_HPD
GND	7	8	GND
NC	5	6	NC
+3.3V	3	4	+5V
+3.3V	1	2	+5V

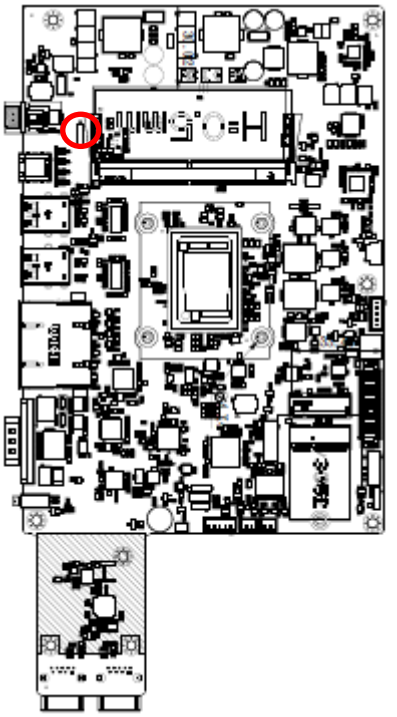
3.4.16 PC connector (JPC1)

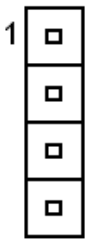




Signal	PIN
VCCCORE_nPMALERT	1
VCCCORE_PMSDA	2
GND	3
VCCCORE_PMSCL	4
+3.3VSB	5
NC	6

3.4.17 PD JTAG connector (JPD1)





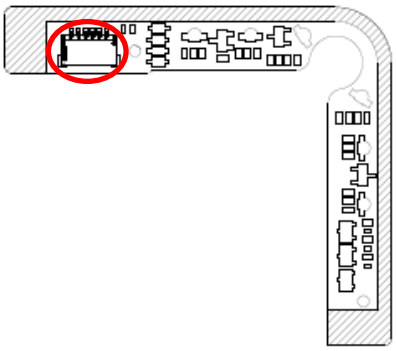
Signal	PIN
LDO_3V3	1
EEPROM_I2C_SCL	2
EEPROM_I2C_SDA	3
GND	4

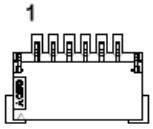
3.5 HID-1337 DB-A Connector list

Connectors		
Label	**Function**	**Note**
A_JLED1	LED connector	6 x 1 wafer, pitch 1.00 mm

3.6 HID-1337 DB-A Connectors settings

3.6.1 LED connector (A_JLED1)

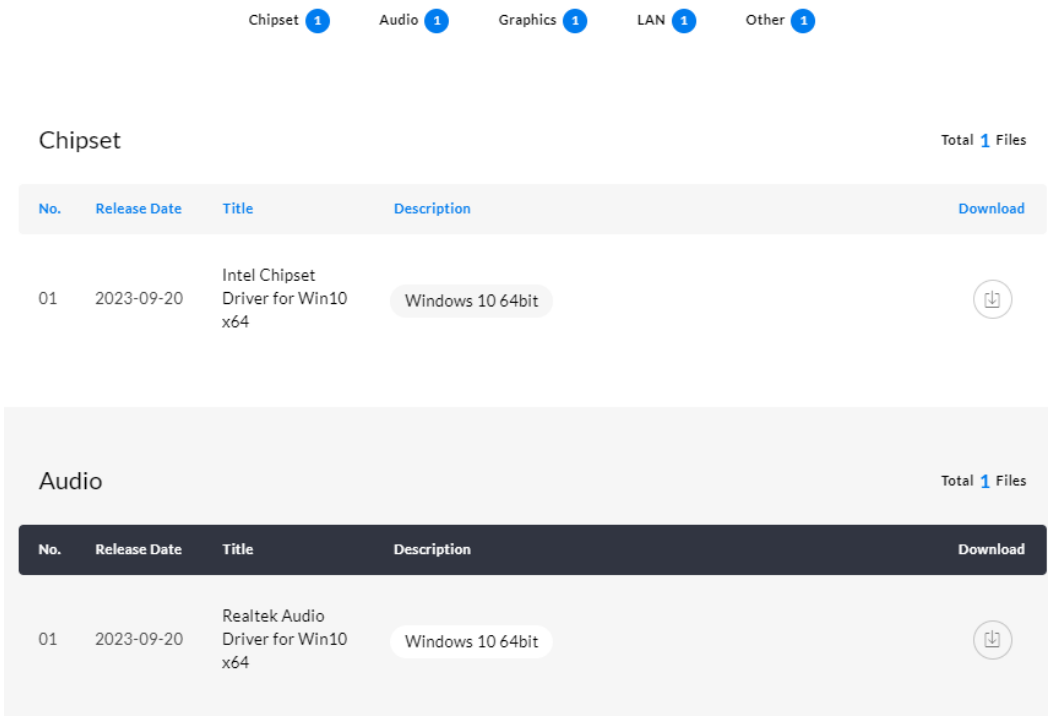




Signal	PIN
GND	1
A_LED_R_EN#	2
A_LED_G_EN#	3
A_LED_Y_EN#	4
NC	5
GND	6

4. Drivers Installation

All the drivers are available on Avalue Downloads Area (https://www.avalue.com/en/support/download). Type the model name and press Enter to find all the relevant software, utilities, and documentation.



(For reference only)

Note: Installation procedures and screen shots in this section are for your reference and may not be exactly the same as shown on your screen.

4.1 Install Chipset Driver

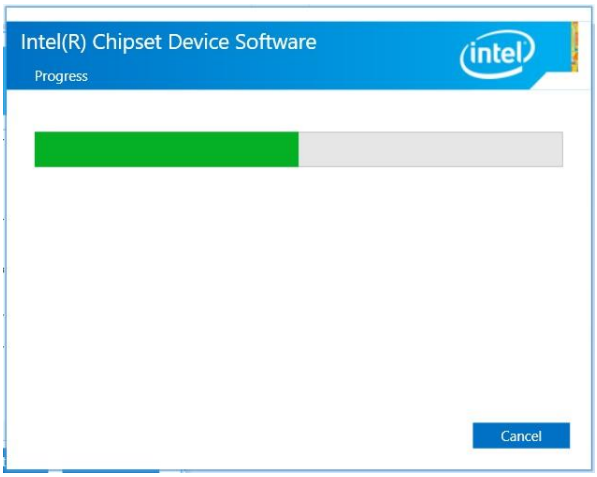
All drivers can be found on the Avalue Official Website:

www.avalue.com.

Note: The installation procedures and screen shots in this section are based on Windows 10 operation system. If the warning message appears while the installation process, click Continue to go on.

Step 3. Click **Install**.

Step1. Click **Next**.



Step 4. Installing.

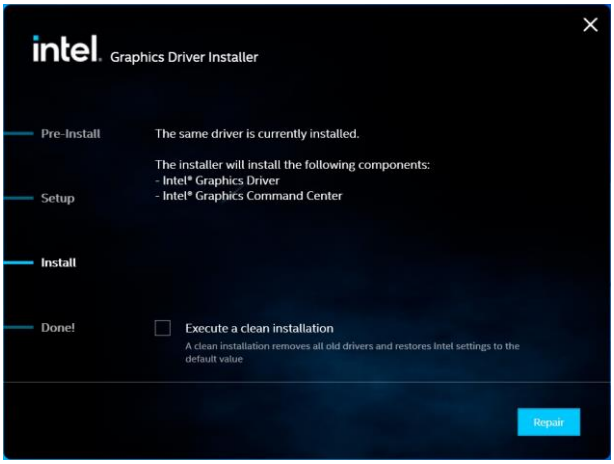
Step 2. Click **Accept**.

Step 5. Click Finish to complete setup.

4.2 Install VGA Driver

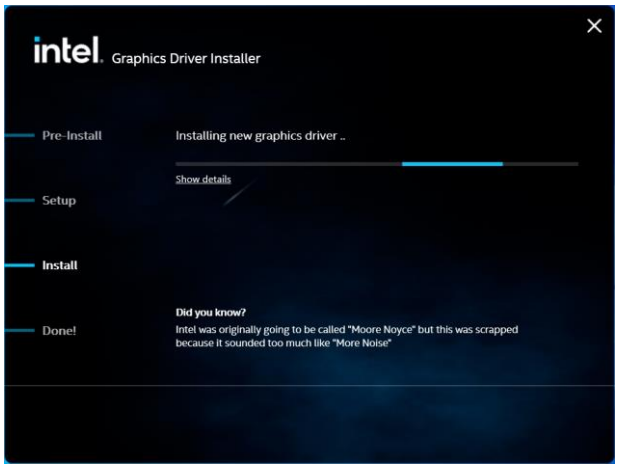
All drivers can be found on the Avalue Official Website: www.avalue.com.

Note: The installation procedures and screen shots in this section are based on Windows 10 operation system.

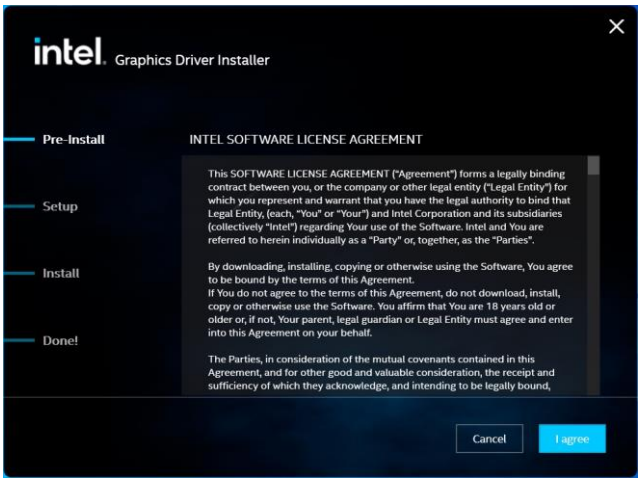


Step 3. Click **Repair**.

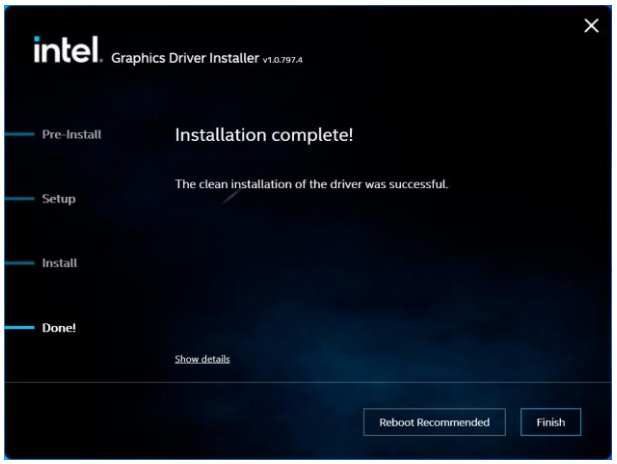
Step 1. Click **Begin installation**.



Step 4. Installing.



Step 2. Click **I agree**.



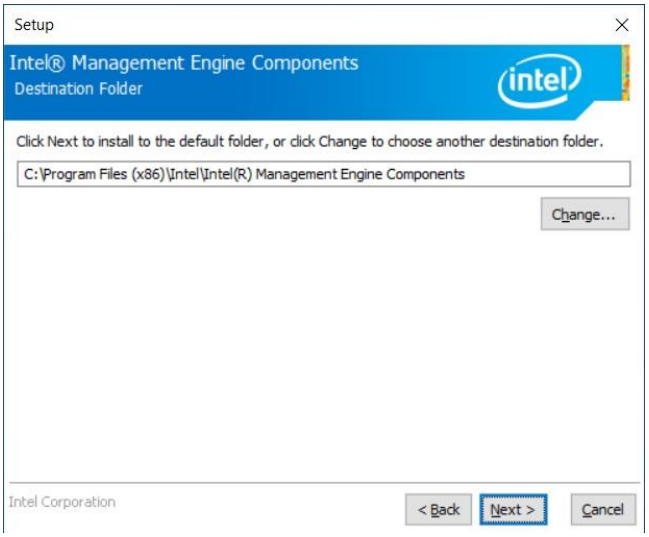
Step 5. Click **Finish** to complete setup.

4.3 Install ME Driver

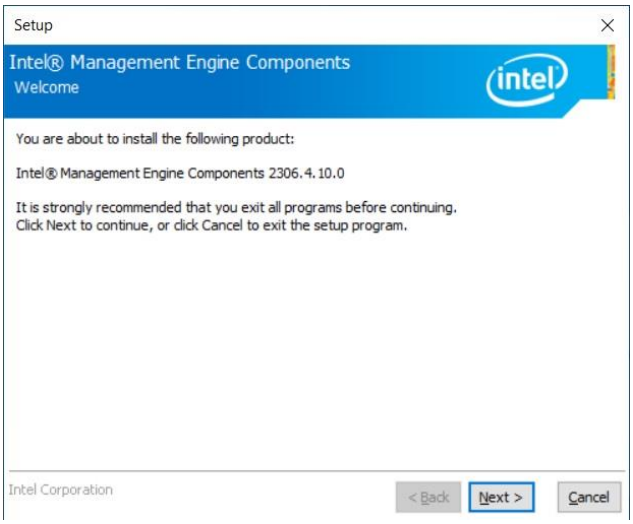
All drivers can be found on the Avalue Official Website:

www.avalue.com.

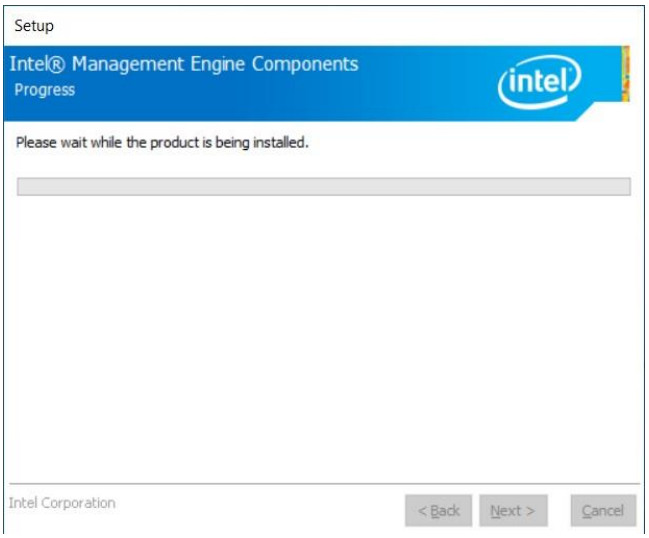
Note: The installation procedures and screen shots in this section are based on Windows 10 operation system.



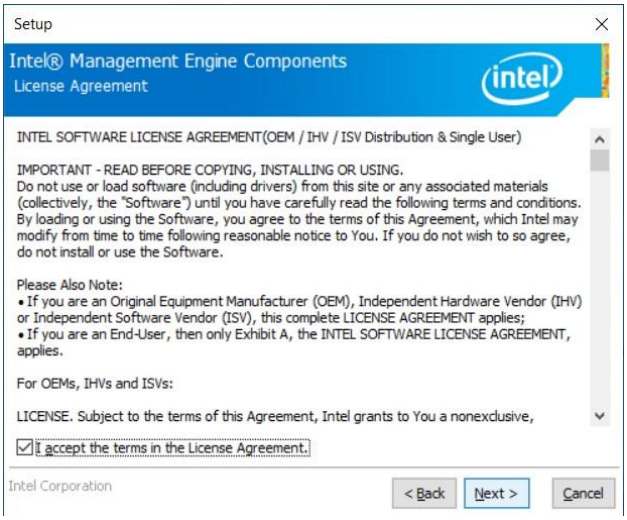
Step 3. Click **Next**.



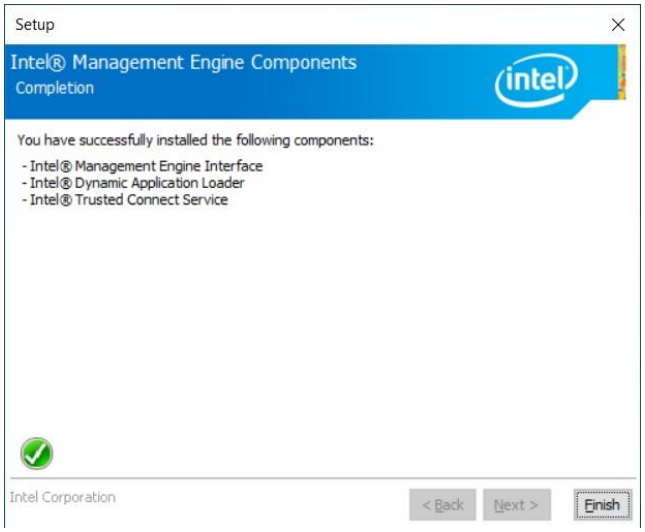
Step 1. Click **Next** to continue installation.



Step 4. Installing.



Step 2. Click **Next**.



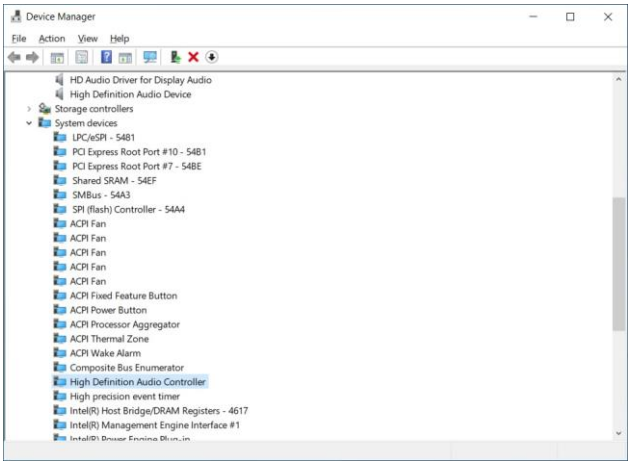
Step 5. Click **Finish** to complete setup.

4.4 Install Audio Driver

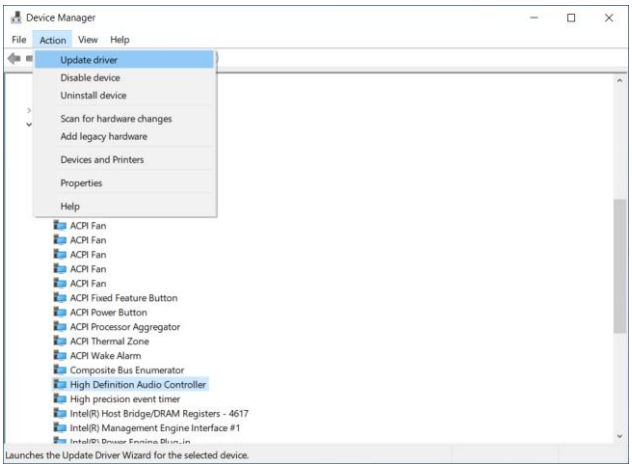
All drivers can be found on the Avalue Official Website:

www.avalue.com.

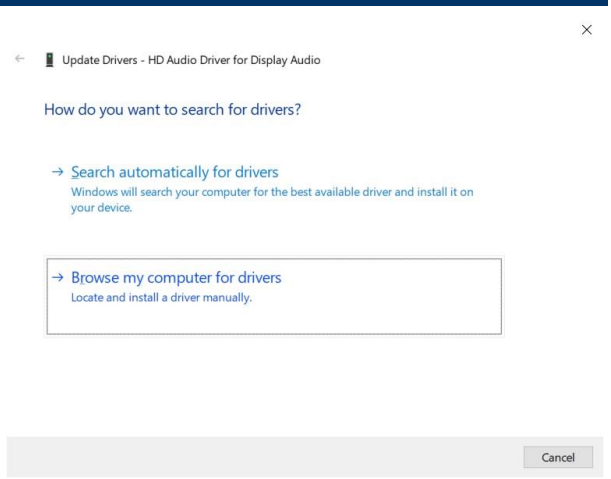
Note: The installation procedures and screen shots in this section are based on Windows 10 operation system.



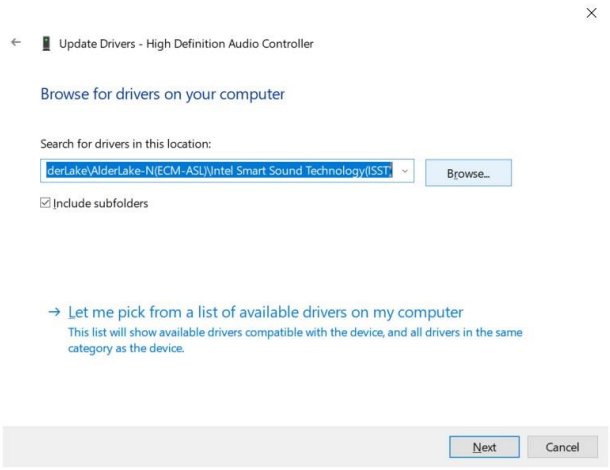
Step 1. Install Intel Audio Driver. Into Device Manager, Click **High Definition Audio Controller**.



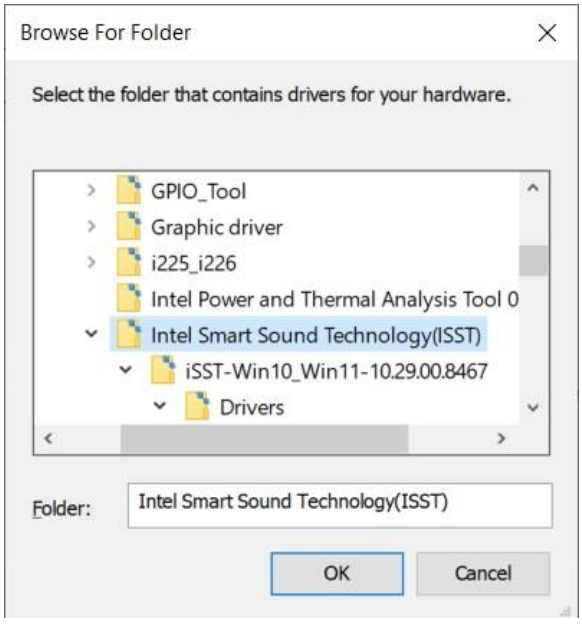
Step 2. Click **Update driver**.



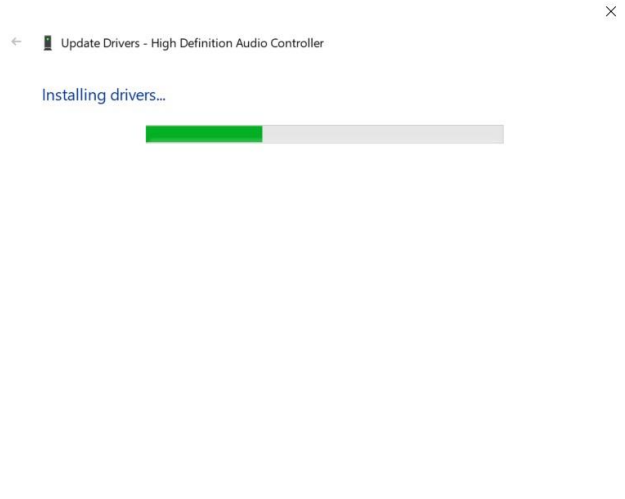
Step 3. Click **Browse my computer for drivers**.



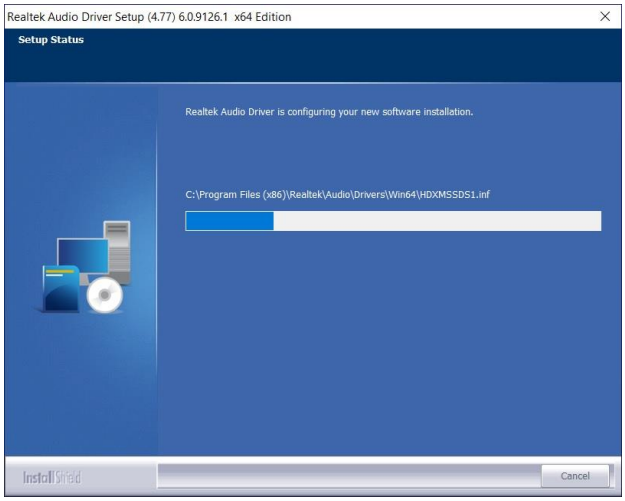
Step 4. Click **Browse**.



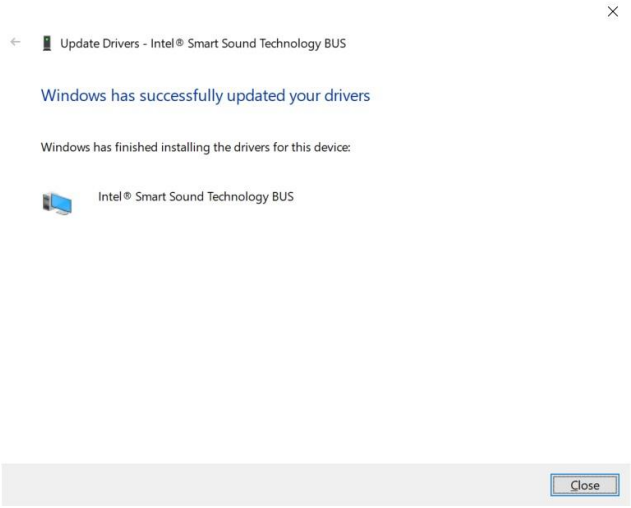
Step 5. Click **OK**.



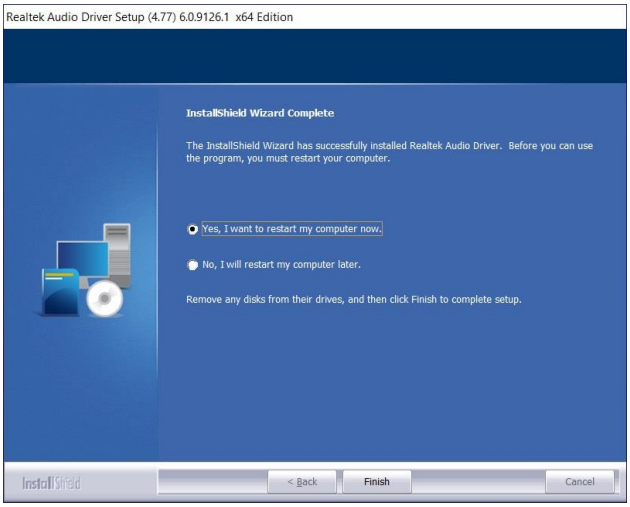
Step 6. Installing.



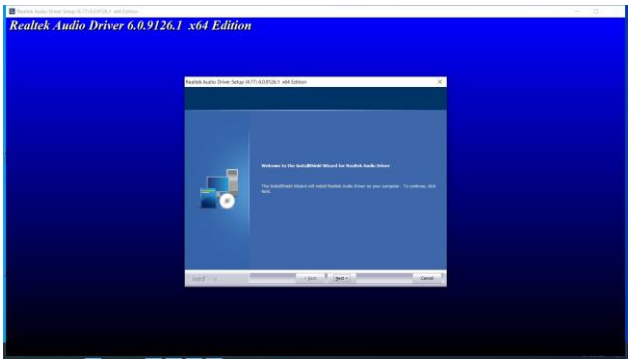
Step 9. Installing.



Step 7. Windows has successfully updated your drivers.



Step 10. Click **Finish** to complete setup.



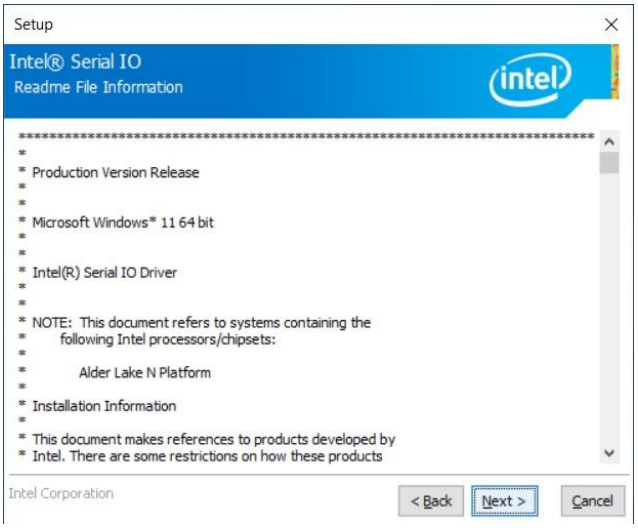
Step 8. Install Realtek Audio Driver

4.5 Install Serial IO Driver

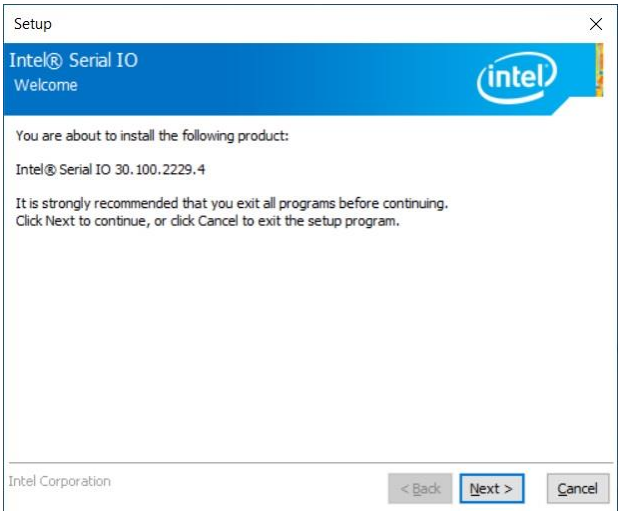
All drivers can be found on the Avalue Official Website:

www.avalue.com.

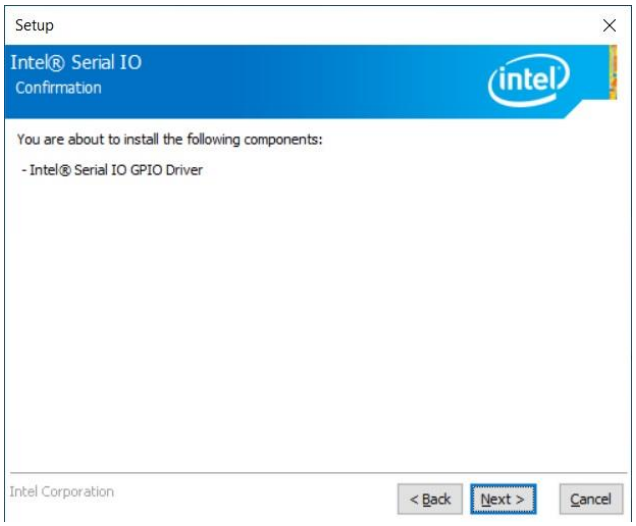
Note: The installation procedures and screen shots in this section are based on Windows 10 operation system.



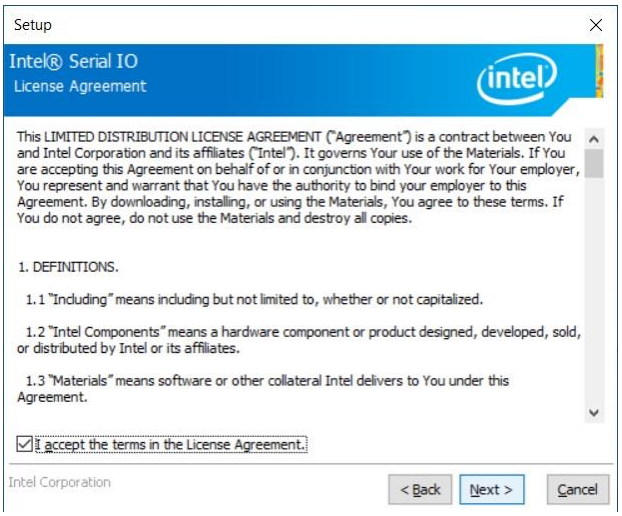
Step 3. Click **Next**.



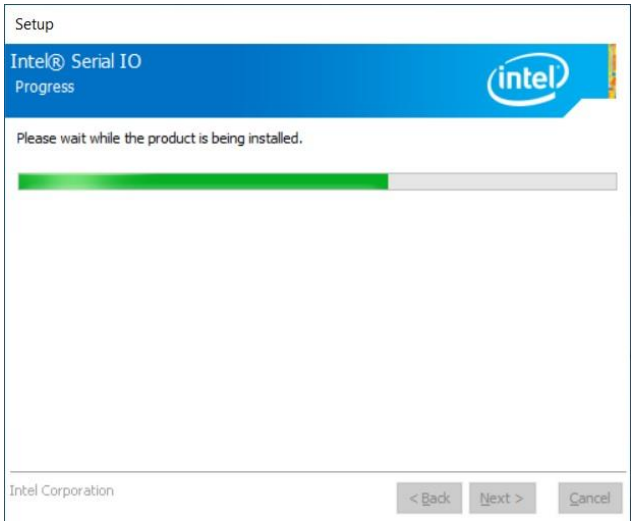
Step 1. Click **Next** to continue installation.



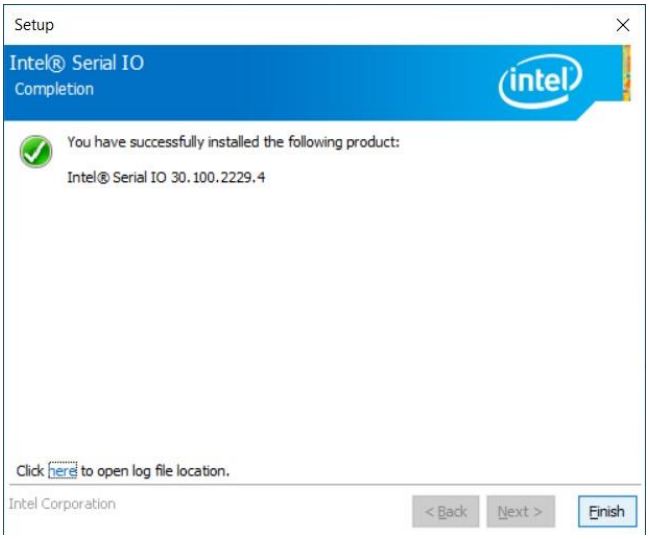
Step 4. Click **Next**.



Step 2. Click **Next**.



Step 5. Installing.



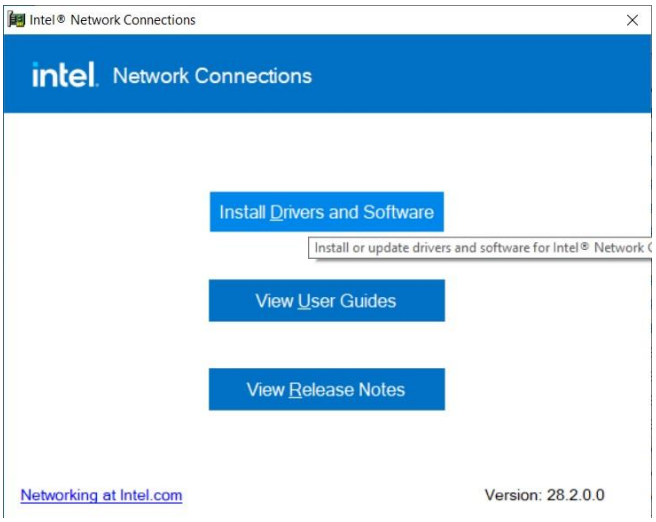
Step 6. Click **Finish** to complete setup.

4.6 Install Ethernet Driver

All drivers can be found on the Avalue Official Website:

www.avalue.com.

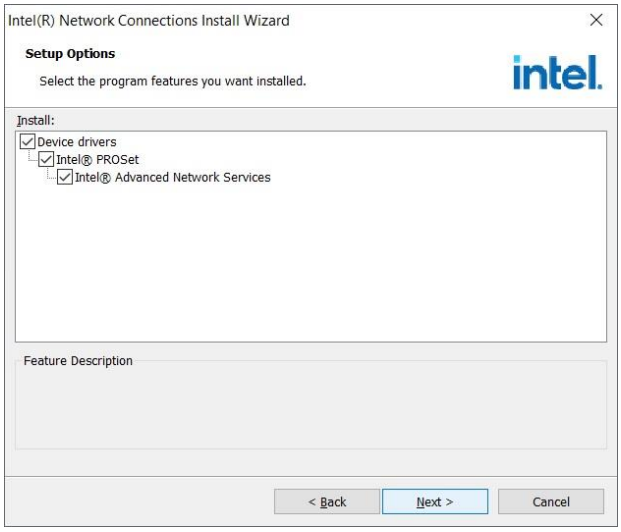
Note: The installation procedures and screen shots in this section are based on Windows 10 operation system.



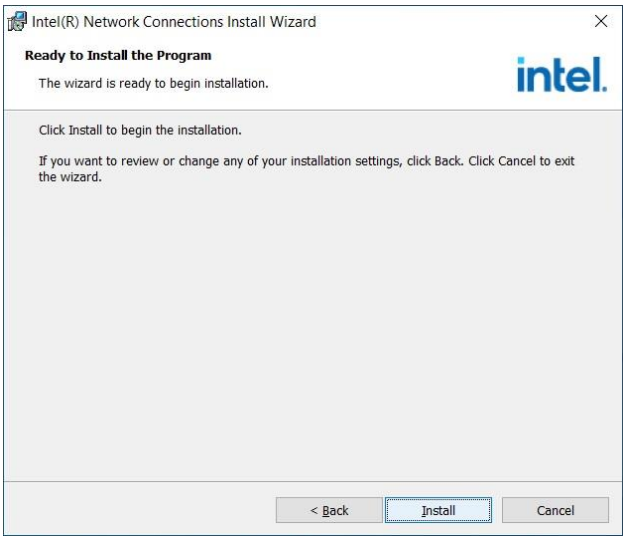
Step 1. Click **Install Drivers and Software**.

Step 2. Click **Next**.

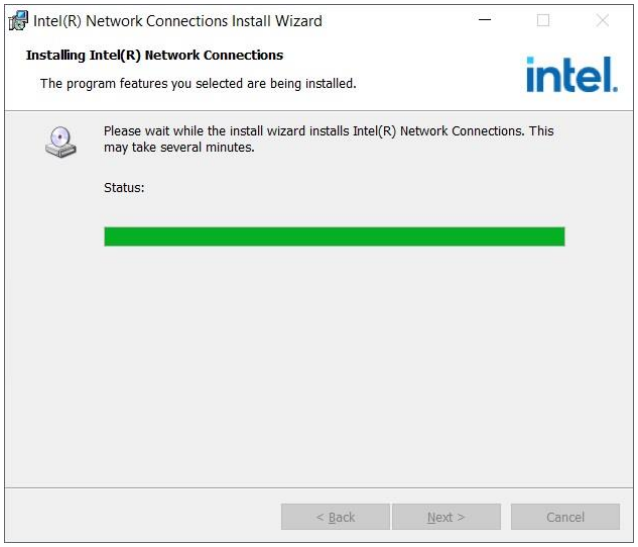
Step 3. Click **Next**.



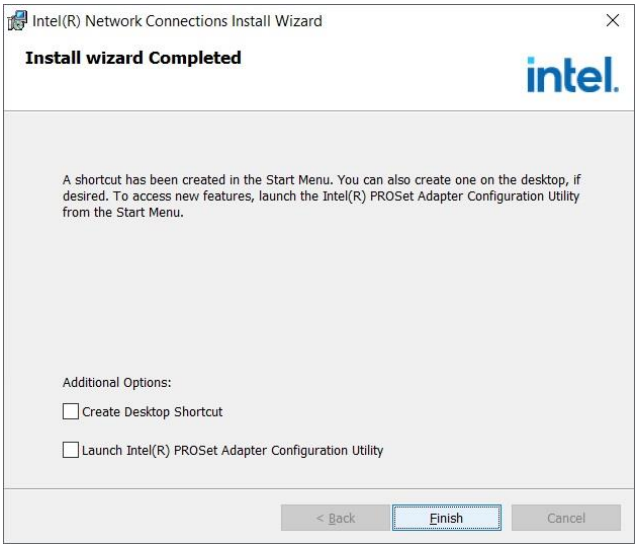
Step 4. Click **Next**.



Step 5. Click **Install**.



Step 6. Installing.



Step 7. Click **Finish** to complete setup.

5.BIOS Setup

5.1 Introduction

The BIOS setup program allows users to modify the basic system configuration. In this following chapter will describe how to access the BIOS setup program and the configuration options that may be changed.

5.2 Starting Setup

AMI BIOS™ is immediately activated when you first power on the computer. The BIOS reads the system information contained in the NVRAM and begins the process of checking out the system and configuring it. When it finishes, the BIOS will seek an operating system on one of the disks and then launch and turn control over to the operating system.

While the BIOS is in control, the Setup program can be activated in one of two ways:
By pressing <ESC> or <Del> immediately after switching the system on, or
By pressing the < ESC> or <Del> key when the following message appears briefly at the left-top of the screen during the POST (Power On Self Test).

Press <ESC> or <Del> to enter SETUP

If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

5.3 Using Setup

In general, you use the arrow keys to highlight items, press <Enter> to select, use the PageUp and PageDown keys to change entries, press <F1> for help and press <Esc> to quit. The following table provides more detail about how to navigate in the Setup program using the keyboard.

Button	Description
↑	Move to previous item
↓	Move to next item
←	Move to the item in the left hand
→	Move to the item in the right hand
Esc key	Main Menu -- Quit and not save changes into NVRAM Status Page Setup Menu and Option Page Setup Menu -- Exit current page and return to Main Menu
+ key	Increase the numeric value or make changes
- key	Decrease the numeric value or make changes
F1 key	General help, only for Status Page Setup Menu and Option Page Setup Menu
F2 key	Previous Values
F3 key	Optimized defaults
F4 key	Save & Exit Setup

- **Navigating Through The Menu Bar**

  Use the left and right arrow keys to choose the menu you want to be in.

Note: Some of the navigation keys differ from one screen to another.

- **To Display a Sub Menu**

  Use the arrow keys to move the cursor to the sub menu you want. Then press <Enter>. A "➢" pointer marks all sub menus.

5.4 Getting Help

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc> or the <Enter> key again.

5.5 In Case of Problems

If, after making and saving system changes with Setup, you discover that your computer no longer is able to boot, the AMI BIOS supports an override to the NVRAM settings which resets your system to its defaults.

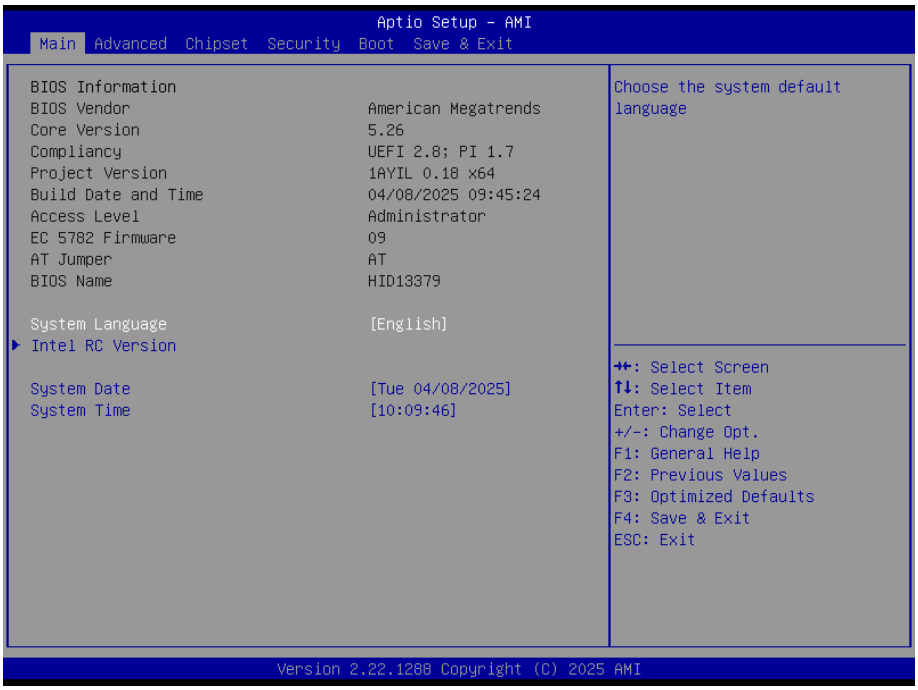
The best advice is to only alter settings which you thoroughly understand. To this end, we strongly recommend that you avoid making any changes to the chipset defaults. These defaults have been carefully chosen by both BIOS Vendor and your systems manufacturer to provide the absolute maximum performance and reliability. Even a seemingly small change to the chipset setup has the potential for causing you to use the override.

5.6 BIOS setup

Once you enter the Aptio Setup Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions and exit choices. Use the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.

5.6.1 Main Menu

This section allows you to record some basic hardware configurations in your computer and set the system clock.



5.6.1.1 System Language

This option allows choosing the system default language.

5.6.1.2 System Date

Use the system date option to set the system date. Manually enter the Month, day and year.

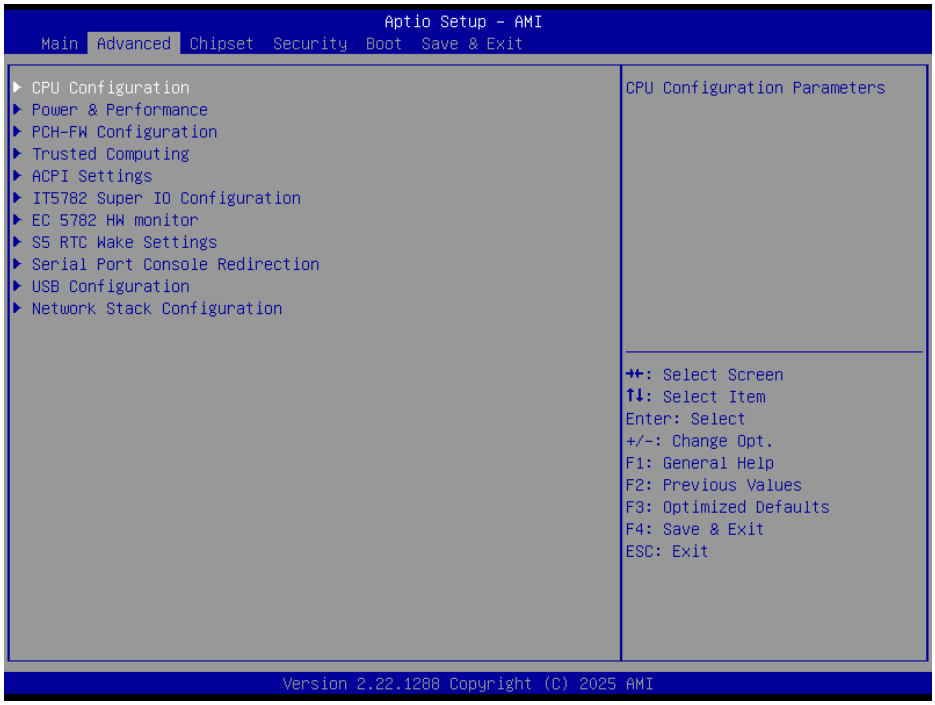
5.6.1.3 System Time

Use the system time option to set the system time. Manually enter the hours, minutes and seconds.

Note: The BIOS setup screens shown in this chapter are for reference purposes only, and may not exactly match what you see on your screen.
Visit the Avalue website (www.avalue.com) to download the latest product and BIOS information.

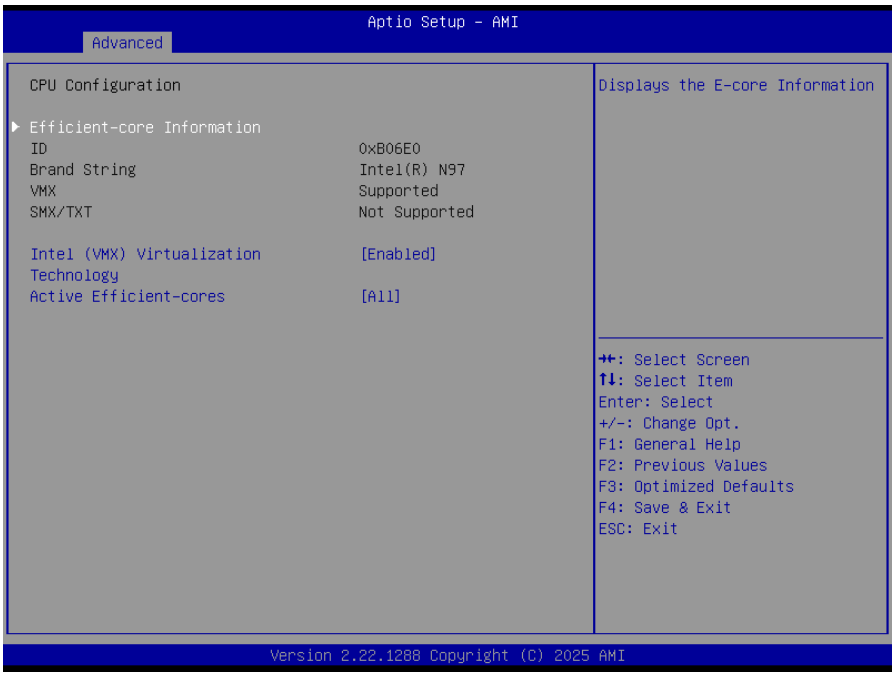
5.6.2 Advanced Menu

This section allows you to configure your CPU and other system devices for basic operation through the following sub-menus.



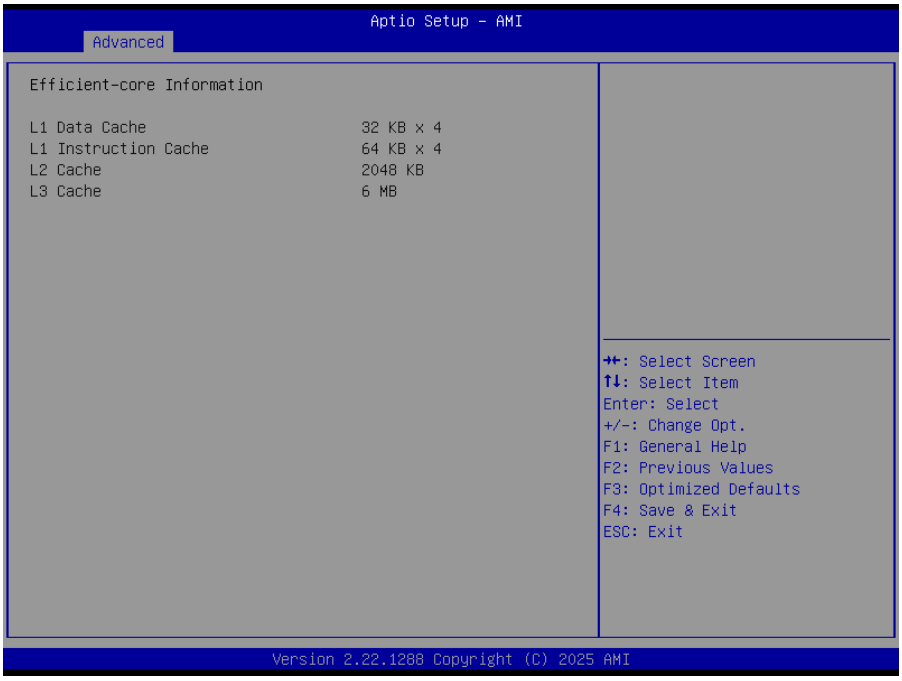
5.6.2.1 CPU Configuration

Use the CPU configuration menu to view detailed CPU specification and configure the CPU.

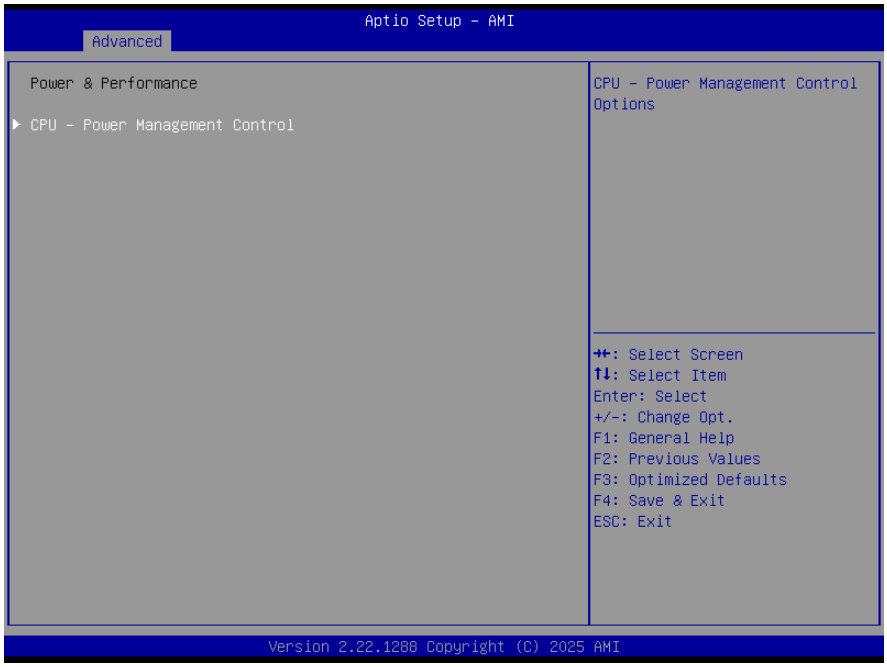


Item	Options	Description
Intel (VMX) Virtualization Technology	Disabled Enabled**[Default]**	When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.
Active Efficient-cores	All**[Default]** 1 2 3	Number of E-cores to enable in each processor package. Note: Number of Cores and E-cores are looked at together. When both are {0,0}, Pcode will enable all cores.

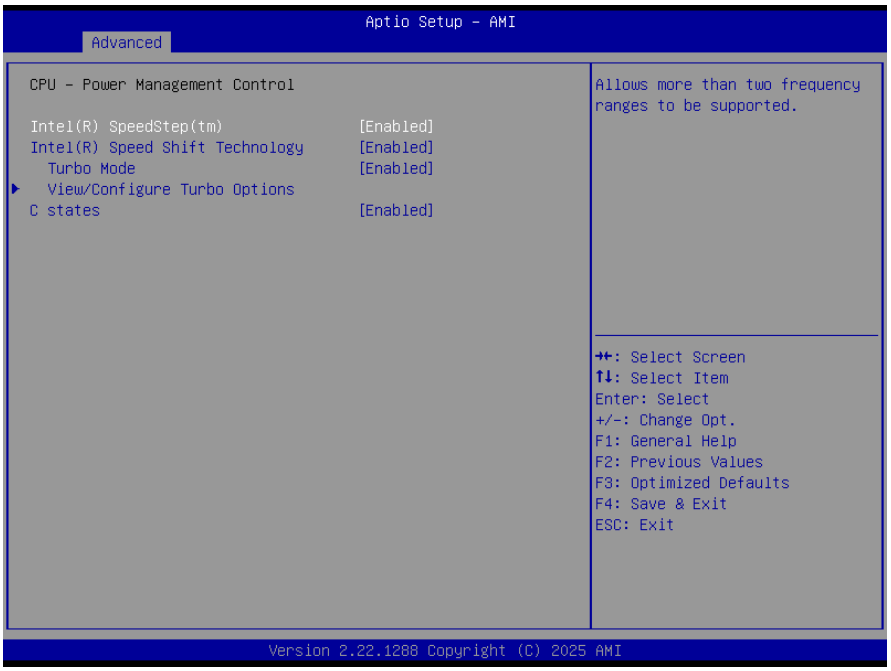
5.6.2.1.1 Efficient-core Information



5.6.2.2 Power & Performance

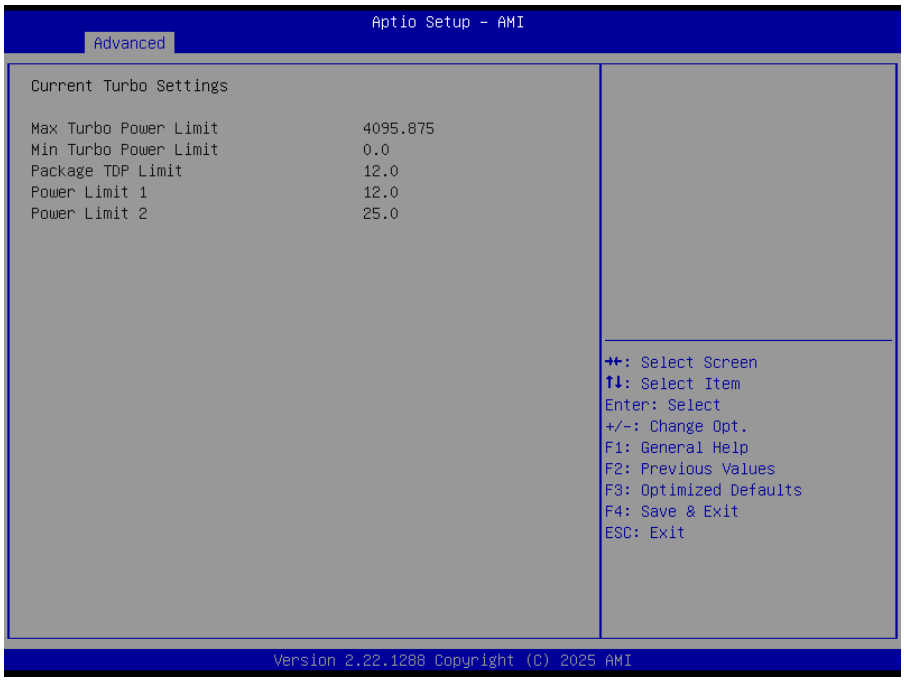


5.6.2.2.1 CPU – Power Management Control

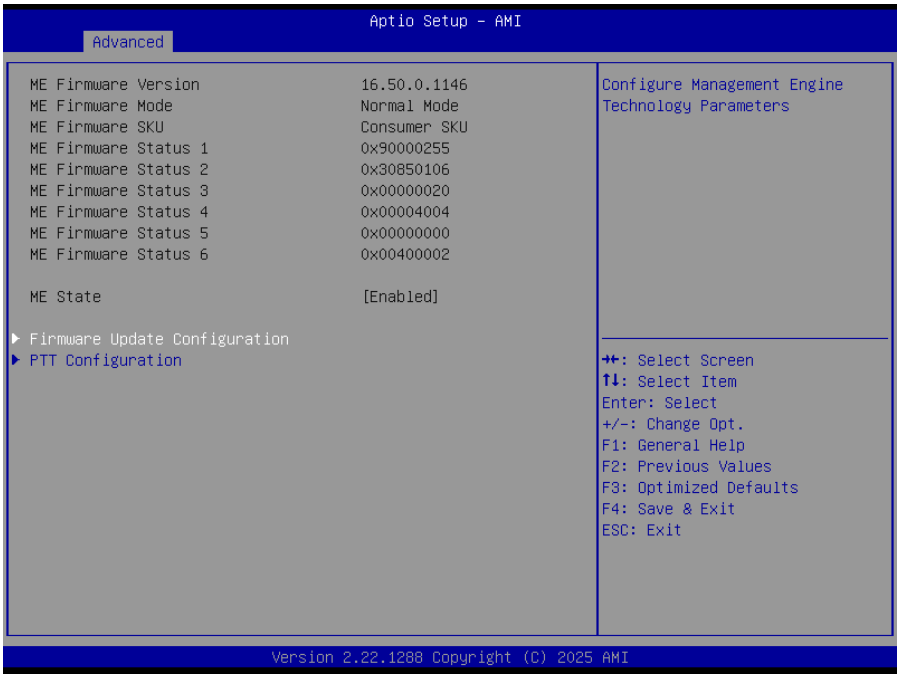


Item	Option	Description
Intel® SpeedStep™	Enabled**[Default]**, Disabled	Allows more than two frequency ranges to be supported.
Intel® Speed Shift Technology	Enabled**[Default]**, Disabled	Eanble/Disable Intel® Speed Shift Technology support. Enabling will expose the CPPC v2 interface to allow for hardware controlled P-states.
Turbo Mode	Enabled**[Default]**, Disabled	Enable/Disable processor Turbo Mode (requires EMTTM enabled too). AUTO means enabled.
C States	Enabled**[Default]**, Disabled	Enable/Disable CPU Power Management.

5.6.2.2.1.1 View/Configure Turbo Options



5.6.2.3 PCH-FW Configuration

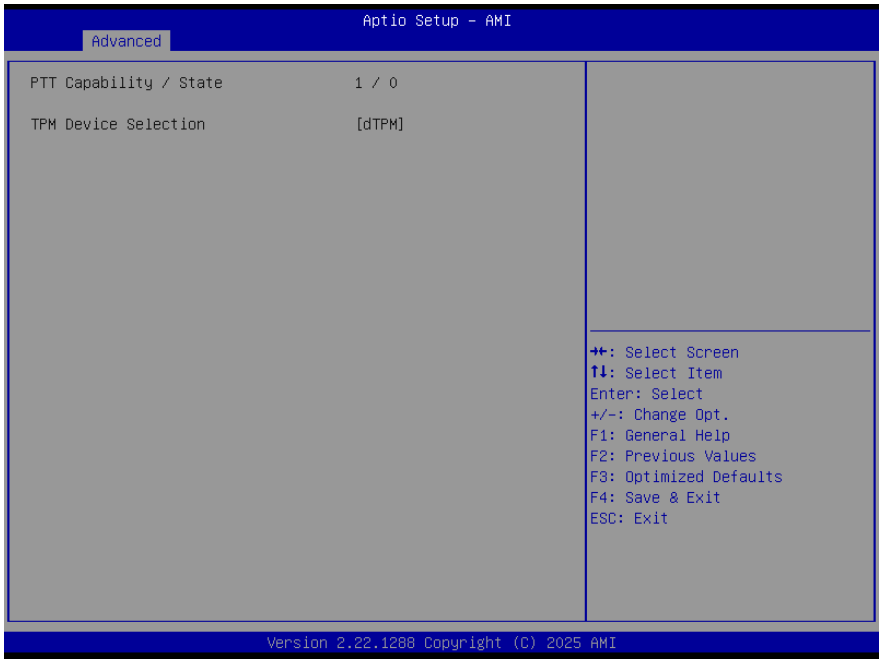


Item	Option	Description
ME State	Disabled, Enabled**[Default]**	When Disabled ME will be put into ME Temporarily Disabled Mode.

5.6.2.3.1 Firmware Update Configuration

Item	Option	Description
ME FW Image Re-Flash	Disabled**[Default]**, Enabled	Enable/Disable Me FW Image Re-Flash function.

5.6.2.3.2 PTT Configuration

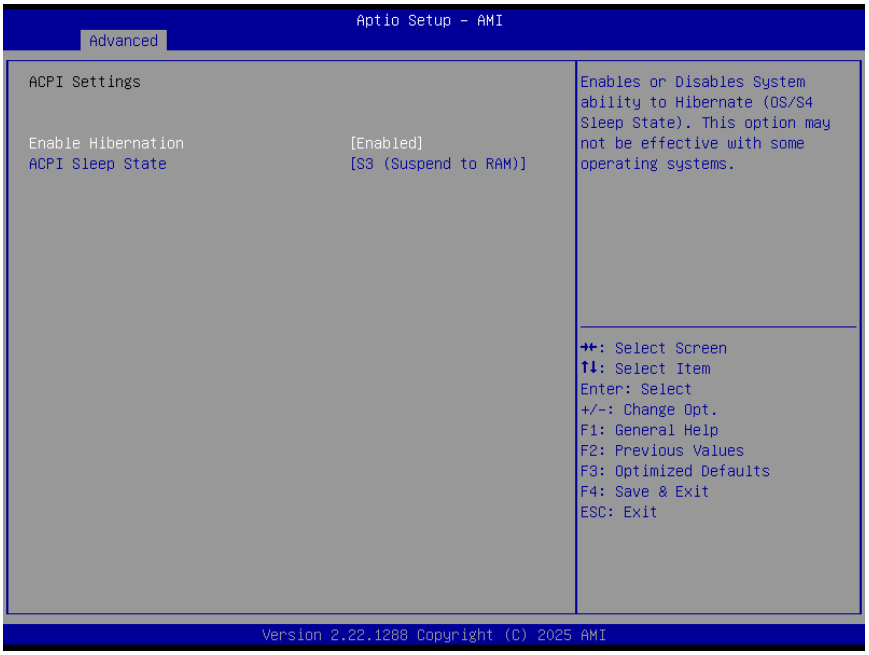


Item	Option	Description
TPM Device Selection	dTPM**[Default]**, PTT	Selects TPM device: PTT or dTPM. PTT-Enables PTT in SkuMgr dTPM 1.2-Disables PTT in SkuMgr Warning! PTT/dTPM will be disabled and all data saved on it will be lost.

5.6.2.4 Trusted Computing

Item	Options	Description
Security Device Support	Disable, Enable**[Default]**	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.

5.6.2.5 APCI Settings

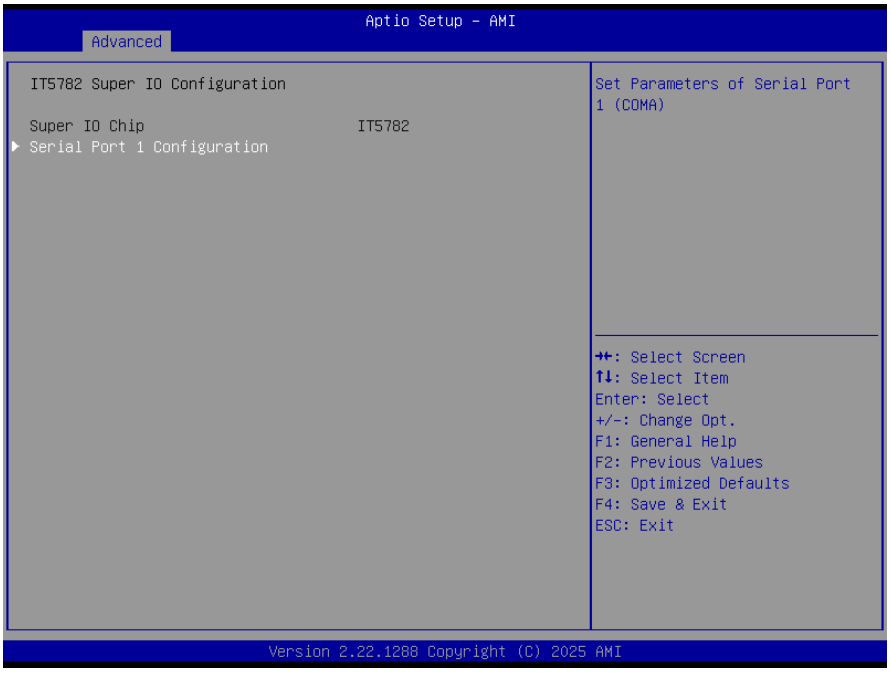


Item	Options	Description
Enable Hibernation	Disabled Enabled**[Default]**,	Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may not be effective with some OS.

ACPI Sleep State	Suspend Disabled, S3 (Suspend to RAM)**[Default]**	Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.

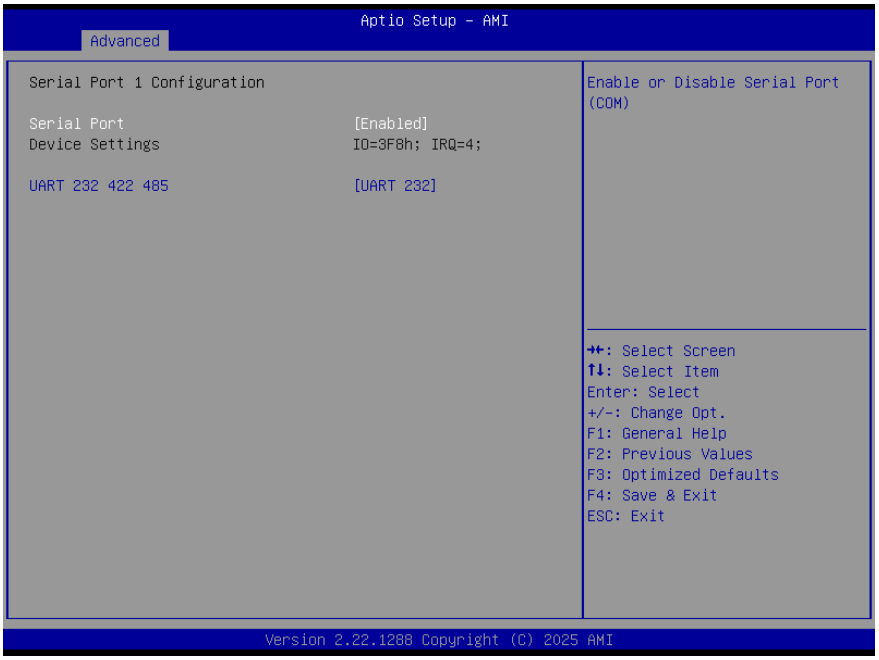
5.6.2.6 IT5782 Super IO Configuration

You can use this item to set up or change the IT5782 Super IO configuration for serial ports. Please refer to 5.6.2.6.1 for more information.



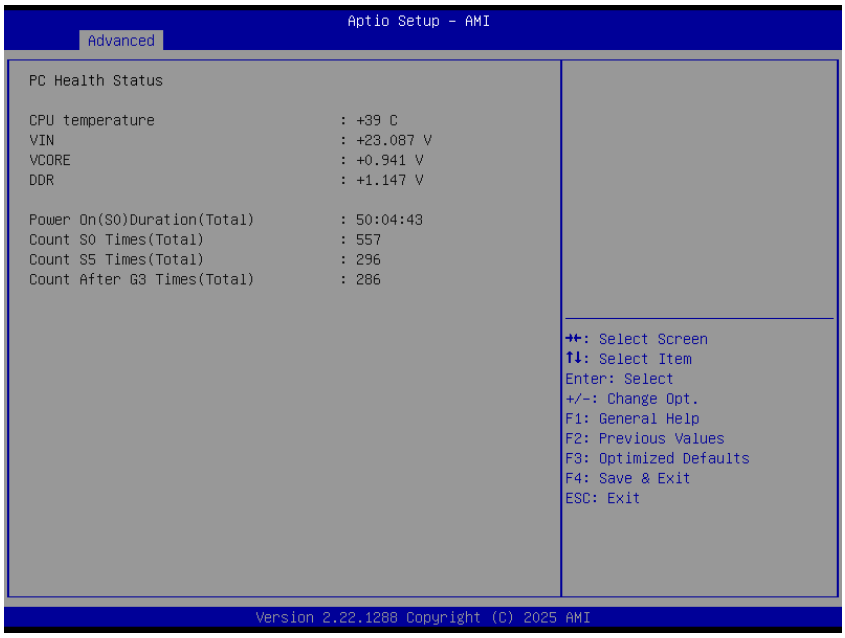
Item	Description
Serial Port 1 Configuration	Set Parameters of Serial Port 1 (COMA).

5.6.2.6.1 Serial Port 1 Configuration

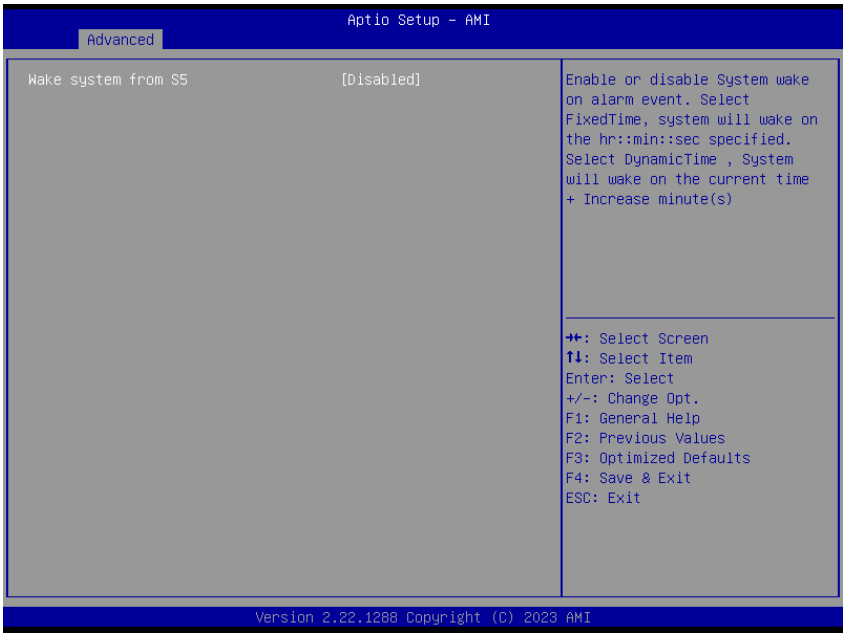


Item	Option	Description
Serial Port	Enabled**[Default]**, Disabled	Enable or Disable Serial Port (COM).
UART 232 422 485	UART 232**[Default]** UART 422 UART 485	Change the Serial Port as RS232/422/485.

5.6.2.7 EC 5782 HW Monitor

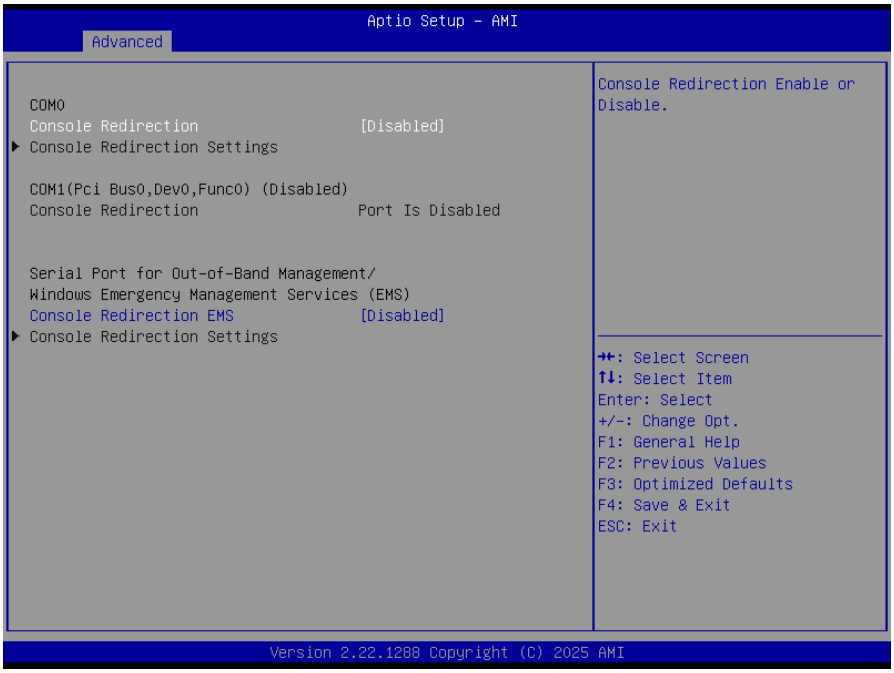


5.6.2.8 S5 RTC Wake Settings



Item	Options	Description
Wake system from S5	Disabled**[Default]**, Fixed Time Dynamic Time	Enable or disable System wake on alarm event. Select Fixed Time, system will wake on the hr::min::sec specified. Select Dynamic Time, System will wake on the current time + Increase minute(s).

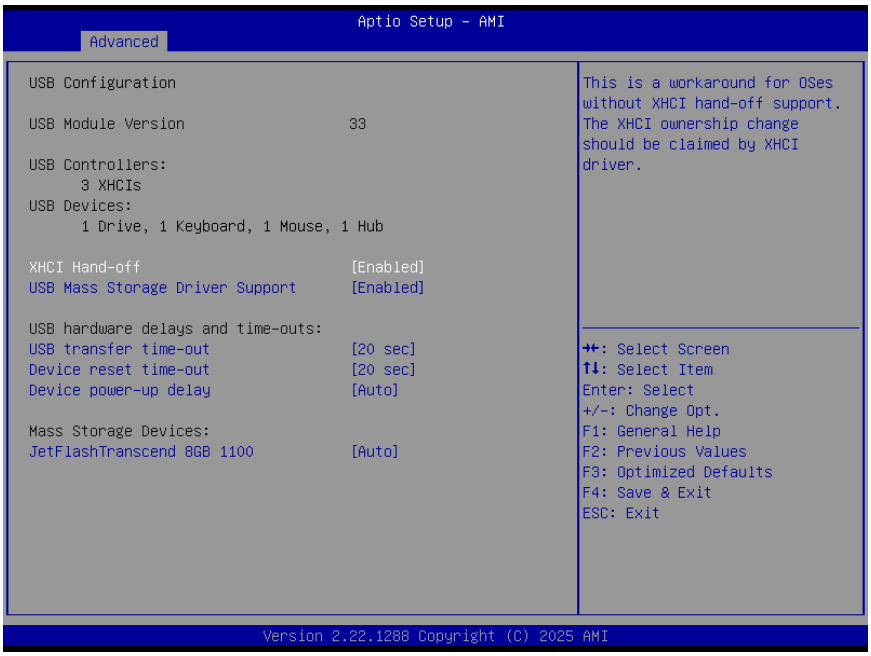
5.6.2.9 Serial Port Console Redirection



Item	Options	Description
Console Redirection	Disabled**[Default]**, Enabled	Console Redirection Enable or Disable.
Console Redirection EMS	Disabled**[Default]**, Enabled	Console Redirection Enable or Disable.

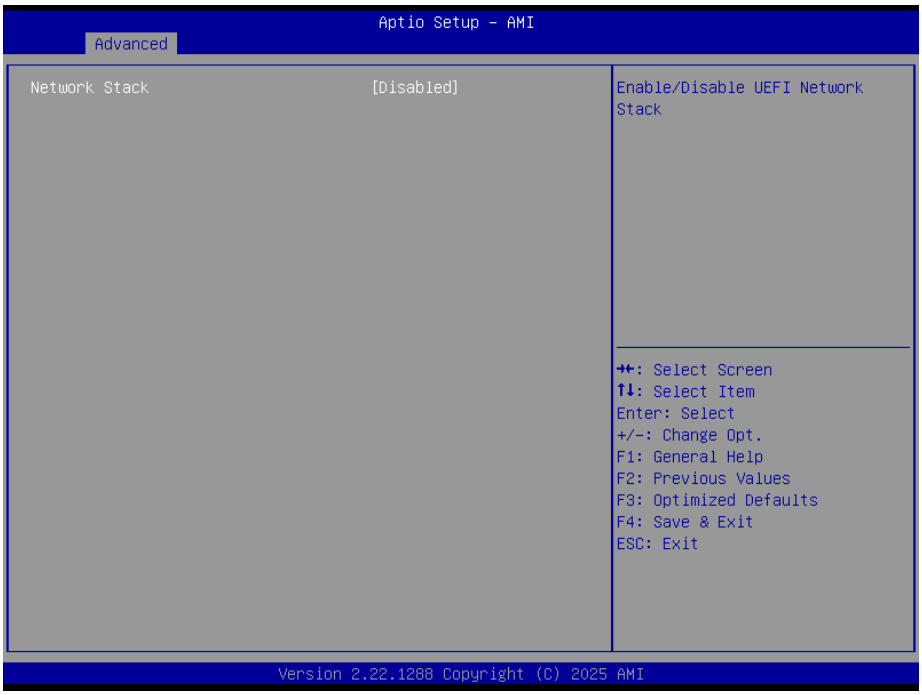
5.6.2.10 USB Configuration

The USB Configuration menu helps read USB information and configures USB settings.



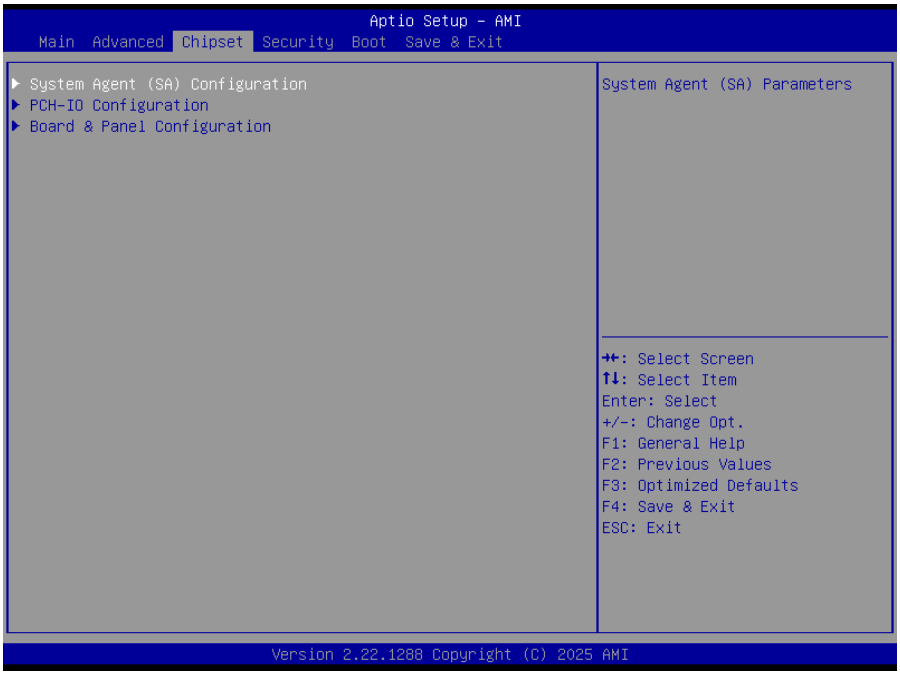
Item	Options	Description
XHCI Hand-off	Enabled**[Default]** Disabled	This is a workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.
USB Mass Storage Driver Support	Disabled Enabled**[Default]**	Enable/Disable USB Mass Storage Driver Support.
USB transfer time-out	1 sec 5 sec 10 sec 20 sec**[Default]**	The time-out value for Control, Bulk, and Interrupt transfers.
Device reset time-out	10 sec 20 sec**[Default]** 30 sec 40 sec	USB mass storage device Start Unit command time-out.
Device power-up delay	Auto**[Default]** Manual	Maximum time the device will take before it properly reports itself to the Host Controller. 'Auto' uses default value: for a Root port it is 100ms, for a Hub port the delay is taken form Hub descriptor.
Mass Storage Devices	Auto**[Default]** Floppy Forced FDD Hard Disk CD-ROM	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.

5.6.2.11 Network Stack Configuration

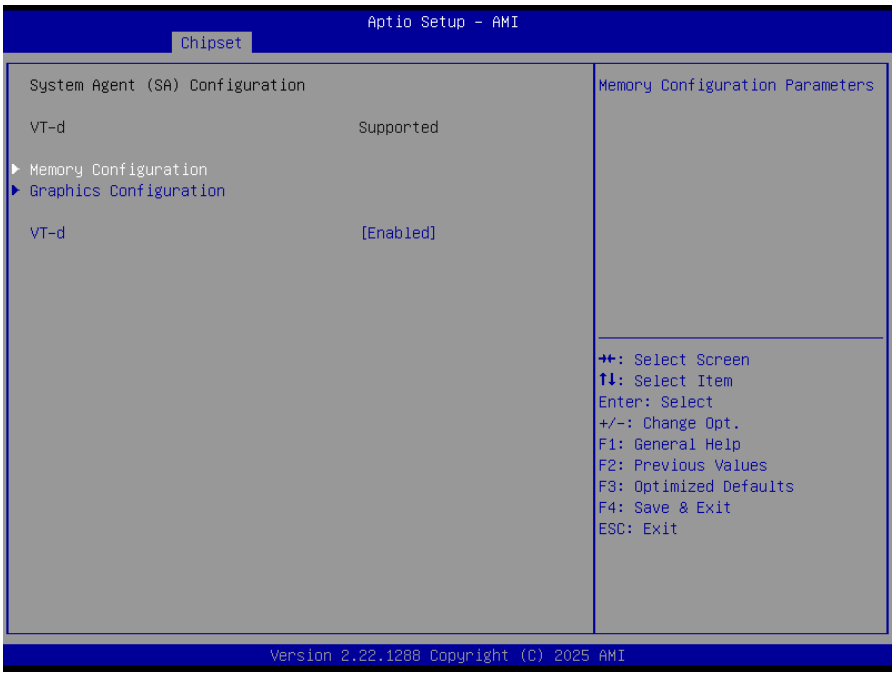


Item	Options	Description
Network Stack	Enabled Disabled**[Default]**	Enable/Disable UEFI Network Stack.

5.6.3 Chipset

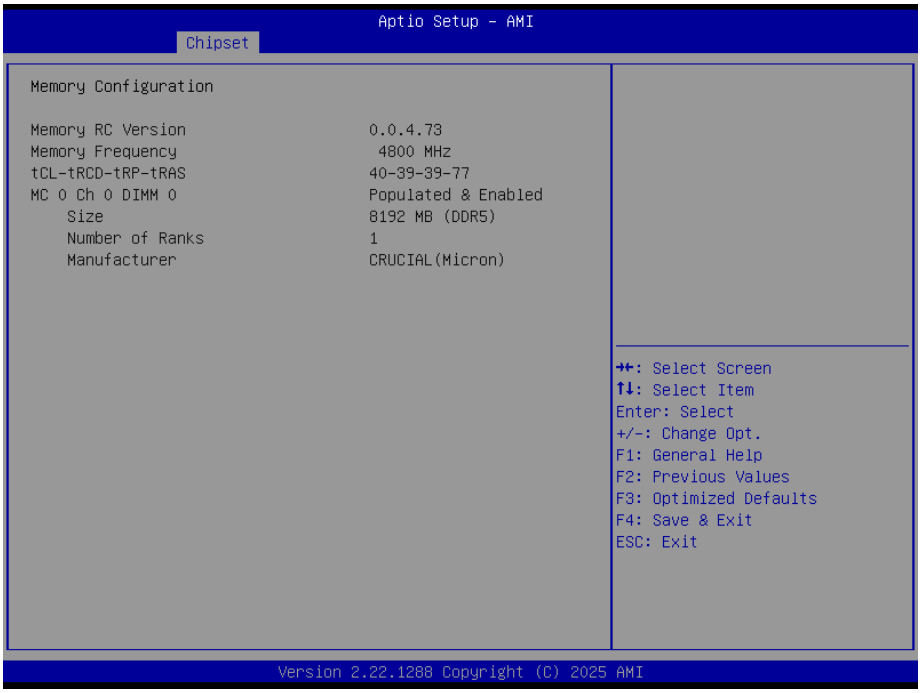


5.6.3.1 System Agent (SA) Configuration

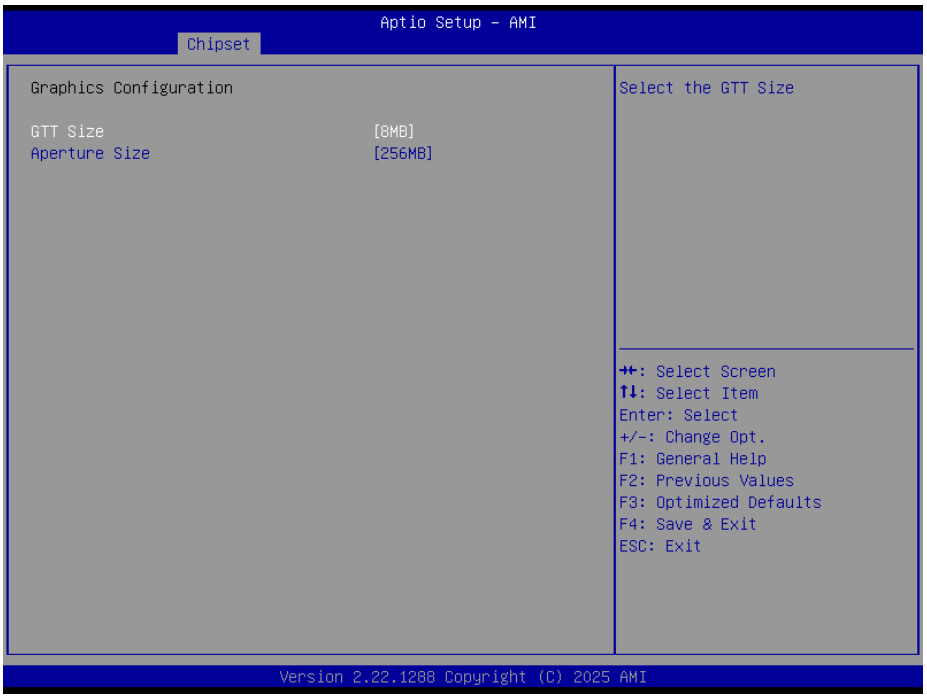


Item	Option	Description
VT-d	Enabled**[Default]** Disabled	VT-d capability.

5.6.3.1.1 Memory Configuration

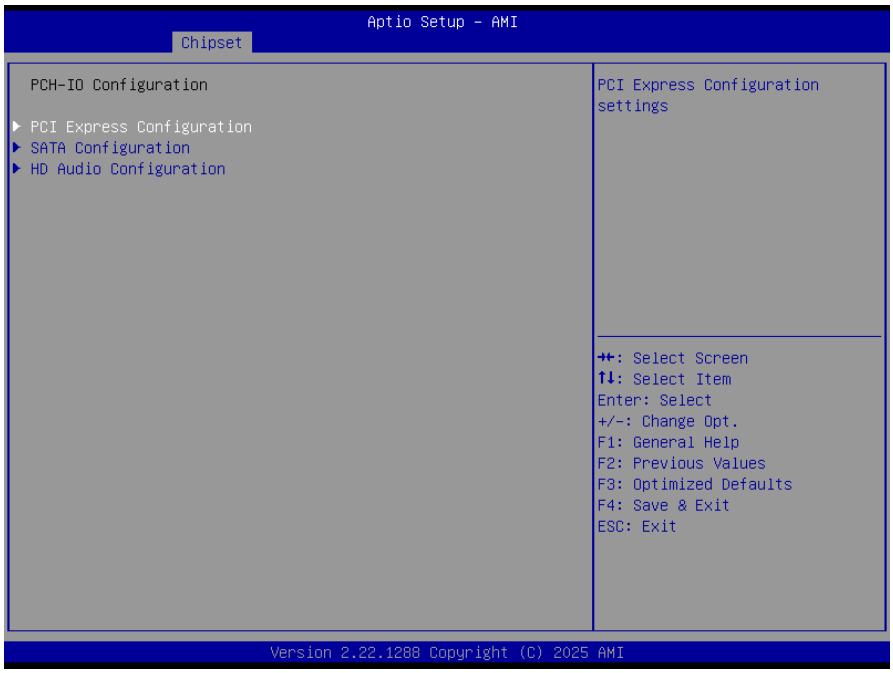


5.6.3.1.2 Graphics Configuration

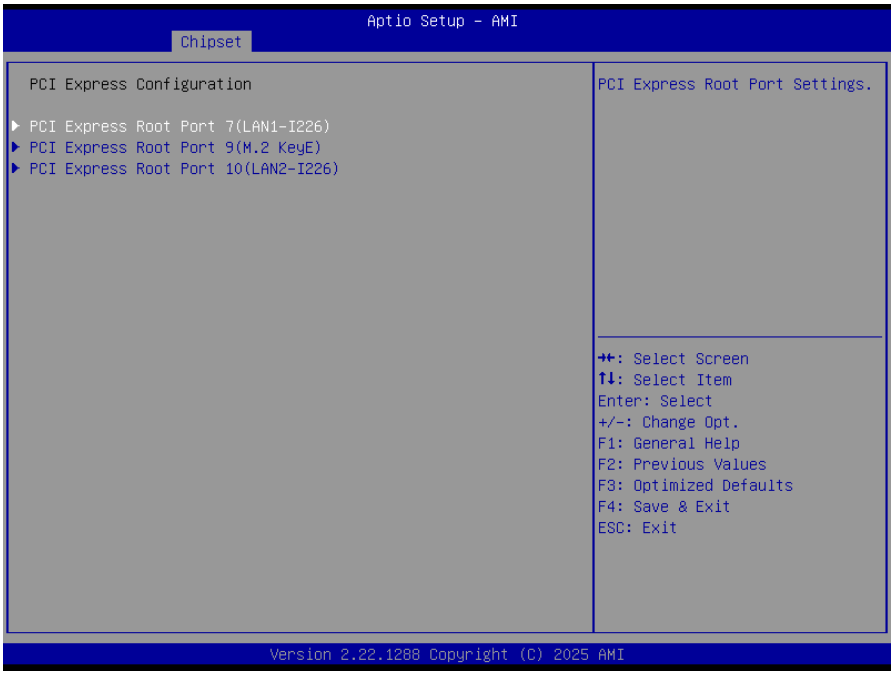


Item	Option	Description
GTT Size	2MB 4MB 8MB**[Default]**	Select the GTT Size.
Aperture Size	128MB 256MB**[Default]** 512MB 1024MB	Select the Aperture Size. Note: Above 4GB MMIO BIOS assignment is automatically enabled when selecting > 2048MB aperture. To use this feature, please disable CSM Support.

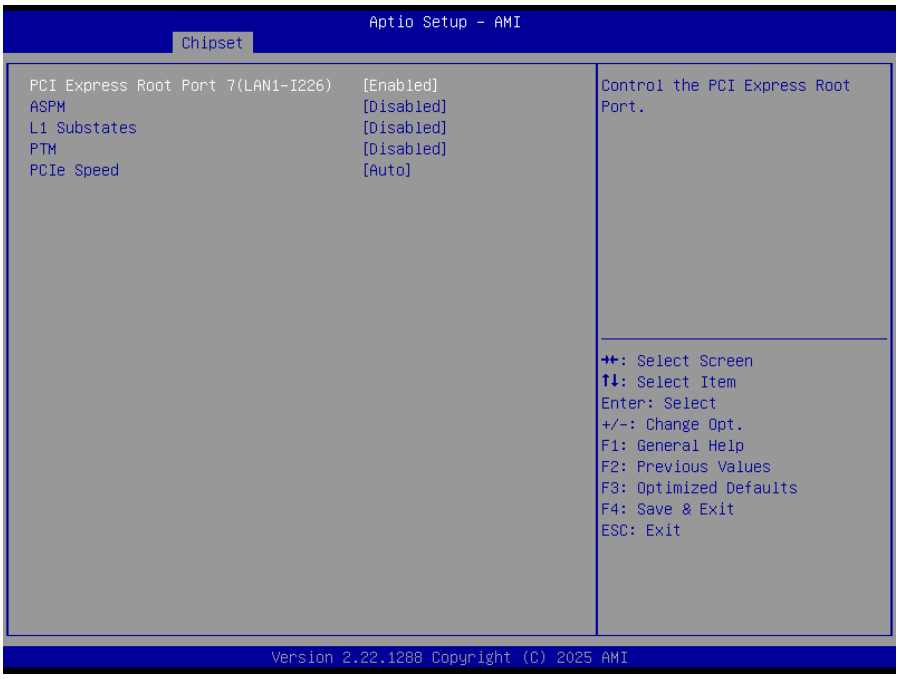
5.6.3.2 PCH-IO Configuration



5.6.3.2.1 PCI Express Configuration

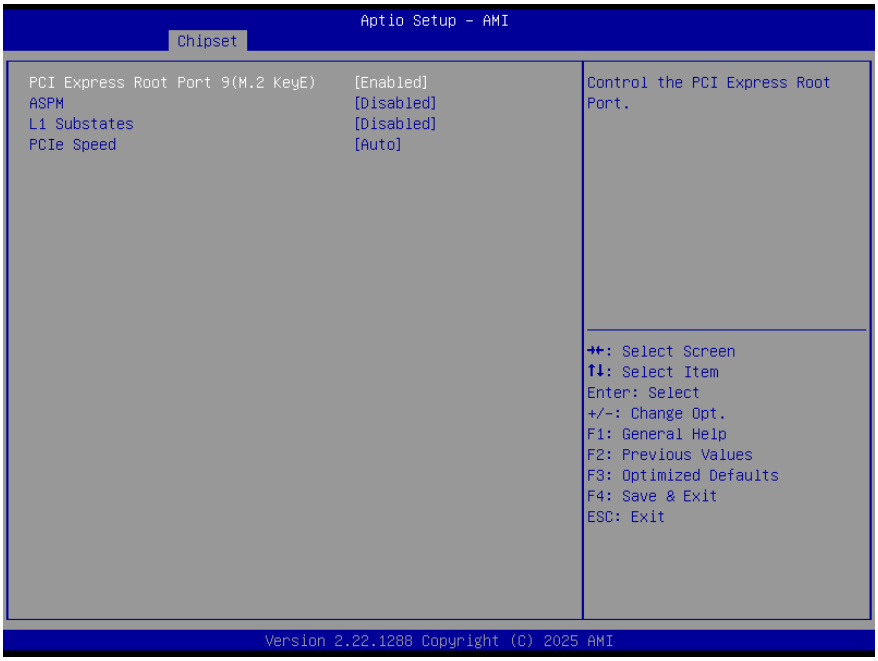


5.6.3.2.1.1 PCI Express Root Port 7(LAN1-I226)



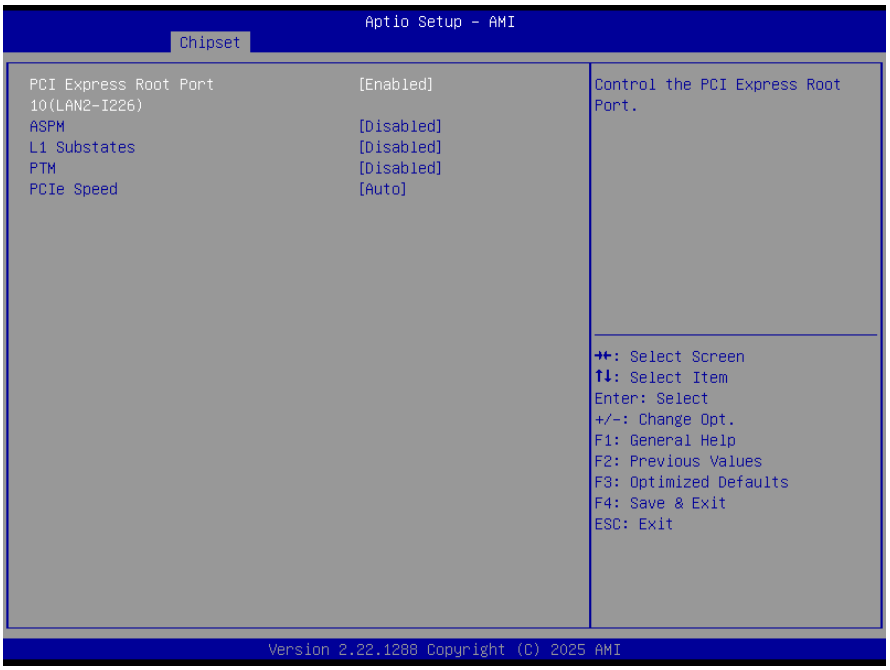
Item	Option	Description
PCI Express Root Port 7(LAN1-I226)	Enabled**[Default]**, Disabled	Control the PCI Express Root Port.
ASPM	Disabled**[Default]**, L1 Auto	Set the ASPM Level: Force L0s – Force all links to L0s State AUTO – BIOS auto configure DISABLE – Disables ASPM.
L1 Substates	Disabled**[Default]** L1.1 L1.1 & L1.2	PCI Express L1 Substates settings.
PTM	Disabled**[Default]**, Enabled	Enable/Disable Precision Time Measurement.
PCIe Speed	Auto**[Default]** Gen1 Gen2 Gen3	Configure PCIe Speed.

5.6.3.2.1.2 PCI Express Root Port 9(M.2 KeyE)



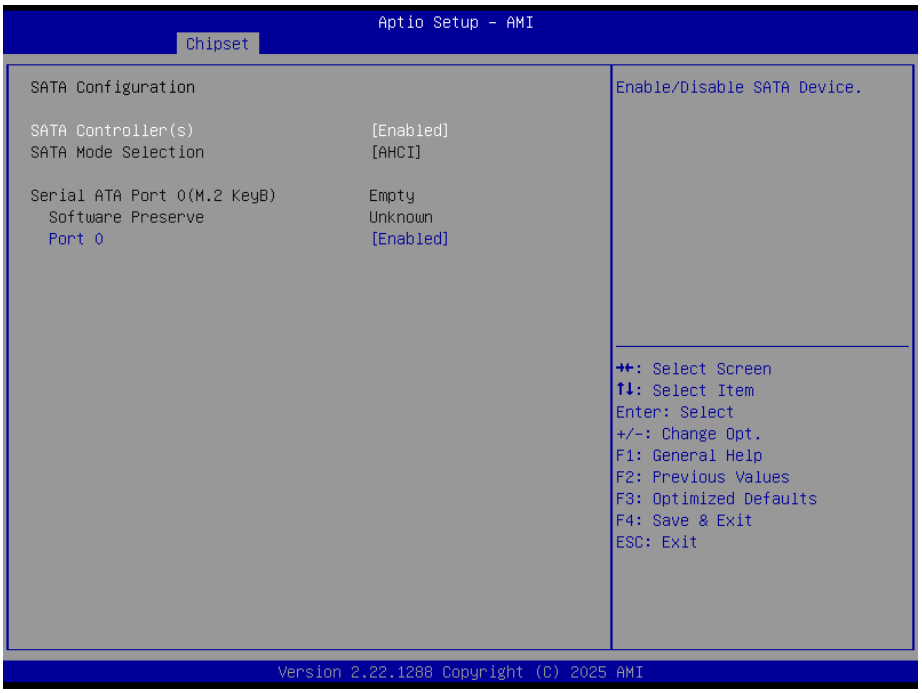
Item	Option	Description
PCI Express Root Port 9(M.2 KeyE)	Enabled**[Default]**, Disabled	Control the PCI Express Root Port.
ASPM	Disabled**[Default]**, L1 Auto	Set the ASPM Level: Force L0s – Force all links to L0s State AUTO – BIOS auto configure DISABLE – Disables ASPM.
L1 Substates	Disabled**[Default]** L1.1 L1.1 & L1.2	PCI Express L1 Substates settings.
PCIe Speed	Auto**[Default]** Gen1 Gen2 Gen3	Configure PCIe Speed.

5.6.3.2.1.3 PCI Express Root Port 10(LAN2-I226)



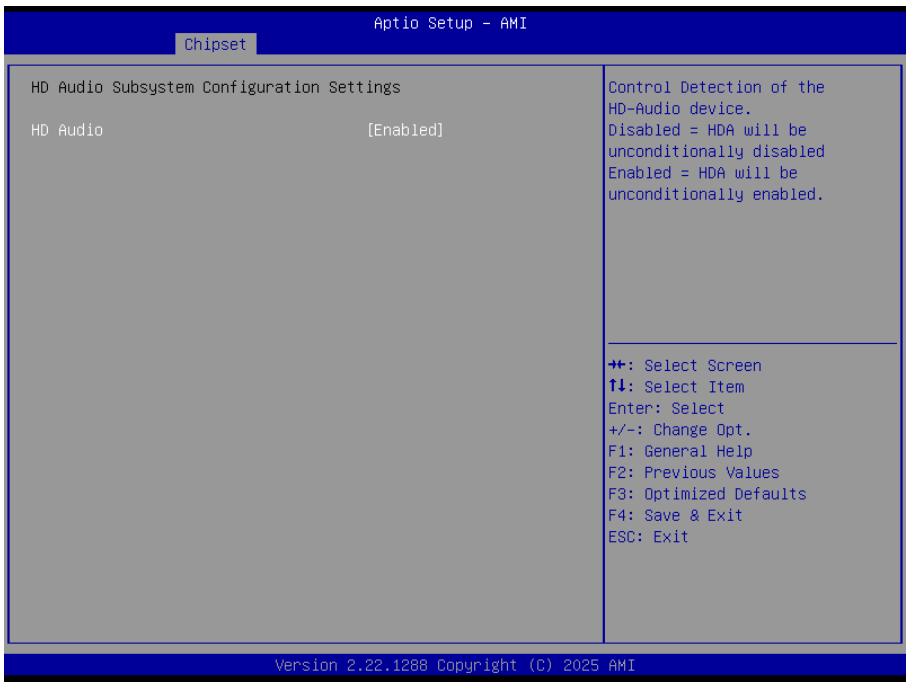
Item	Option	Description
PCI Express Root Port 10(LAN2-I226)	Enabled**[Default]**, Disabled	Control the PCI Express Root Port.
ASPM	Disabled**[Default]**, L1 Auto	Set the ASPM Level: Force L0s – Force all links to L0s State AUTO – BIOS auto configure DISABLE – Disables ASPM.
L1 Substates	Disabled**[Default]** L1.1 L1.1 & L1.2	PCI Express L1 Substates settings.
PTM	Disabled**[Default]**, Enabled	Enable/Disable Precision Time Measurement.
PCIe Speed	Auto**[Default]** Gen1 Gen2 Gen3	Configure PCIe Speed.

5.6.3.2.2 SATA Configuration



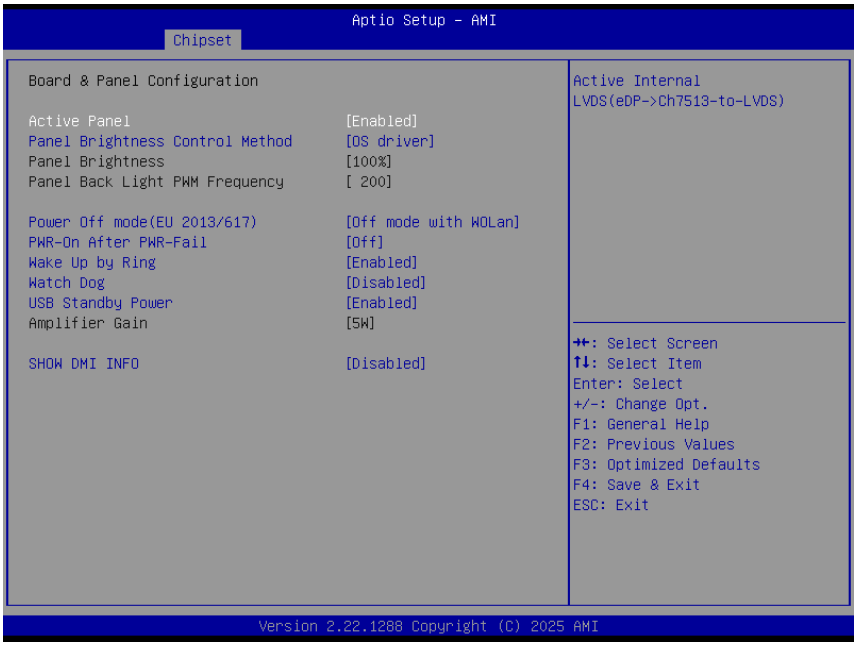
Item	Options	Description
SATA Controller(s)	Enabled**[Default]** Disabled,	Enable/Disable SATA Device.
Port 0	Enabled**[Default]** Disabled	Enable or Disable SATA Port.

5.6.3.2.3 HD Audio Configuration



Item	Option	Description
HD Audio	Disabled Enabled**[Default]**	Control Detection of the HD-Audio device. Disable = HDA will be unconditionally disabled Enabled = HDA will be unconditionally enabled.

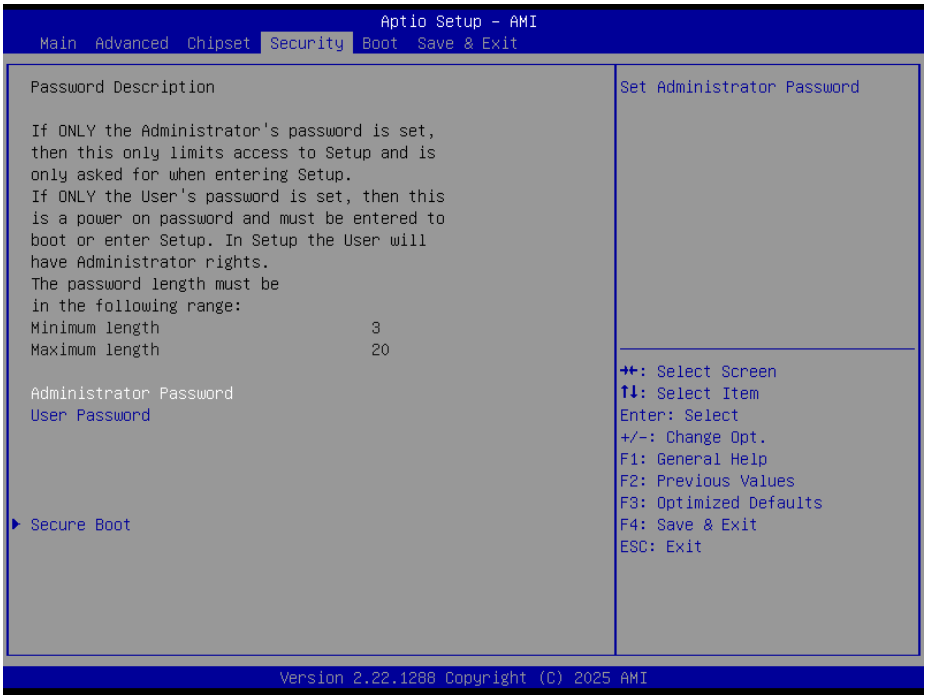
5.6.3.3 Board & Panel Configuration



Item	Option	Description
Active Panel	Disabled Enabled**[Default]**	Active Internal LVDS(eDP->Ch7513-to-LVDS).
Panel Brightness Control Method	BIOS OS driver**[Default]**	Panel Brightness Control Method. 1.BIOS 2. OS Driver.
Panel Brightness	00% 25% 50% 75% 100%**[Default]**	Select Panel back light PWM duty.
Panel Back Light PWM Frequency	200**[Default]** 300 400 500 700 1k 2k 3k 5k 10k 20k	Select Panel back light PWM Frequency.
Power Off mode (EU 2013/617)	Traditional S5 Off mode with WOLan**[Default]** Off mode w/o WOL(ErP)	Power Off mode (EU 2013/617). Off mode with WOLan : Wakeup from Lan1/PWR button. Off mode w/o WOL(ErP) : Wakeup from PWR button.

PWR-On After PWR-Fail	Off**[Default]** On Last state	AC loss resume.
Wake Up by Ring	Disabled Enabled**[Default]**	Wake Up by Ring from S3/S4/S5.
Watch Dog	Disabled**[Default]** 30 sec 40 sec 50 sec 1 min 2 min 10 min 30 min	Select WatchDog.
USB Standby Power	Disabled Enabled**[Default]**	Enable/Disabled USB Standby Power during S3/S4/S5.
SHOW DMI INFO	Disabled**[Default]** Enabled	SHOW DMI INFO.

5.6.4 Security



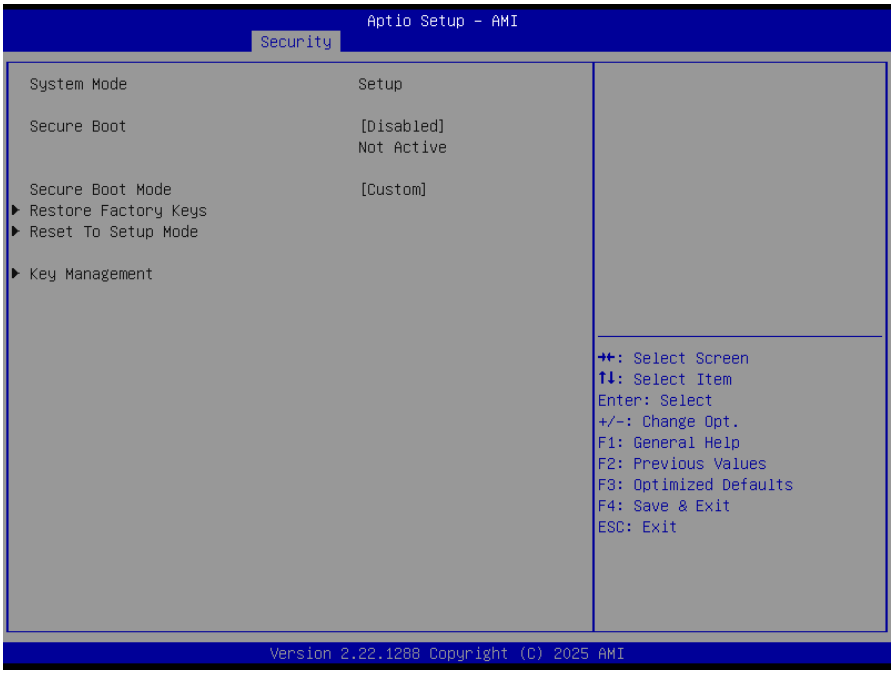
- **Administrator Password**

Set setup Administrator Password

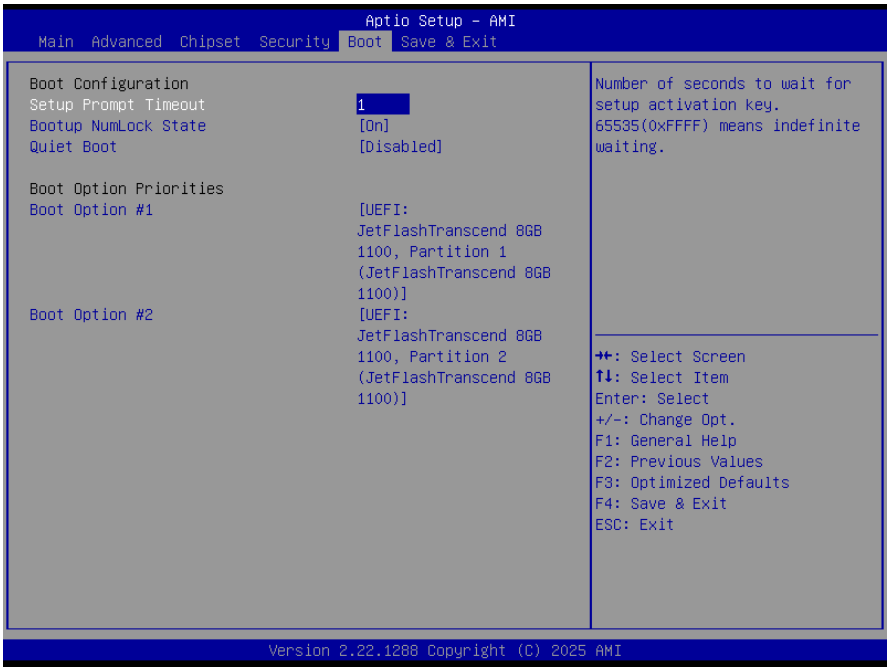
- **User Password**

Set User Password

5.6.4.1 Secure Boot

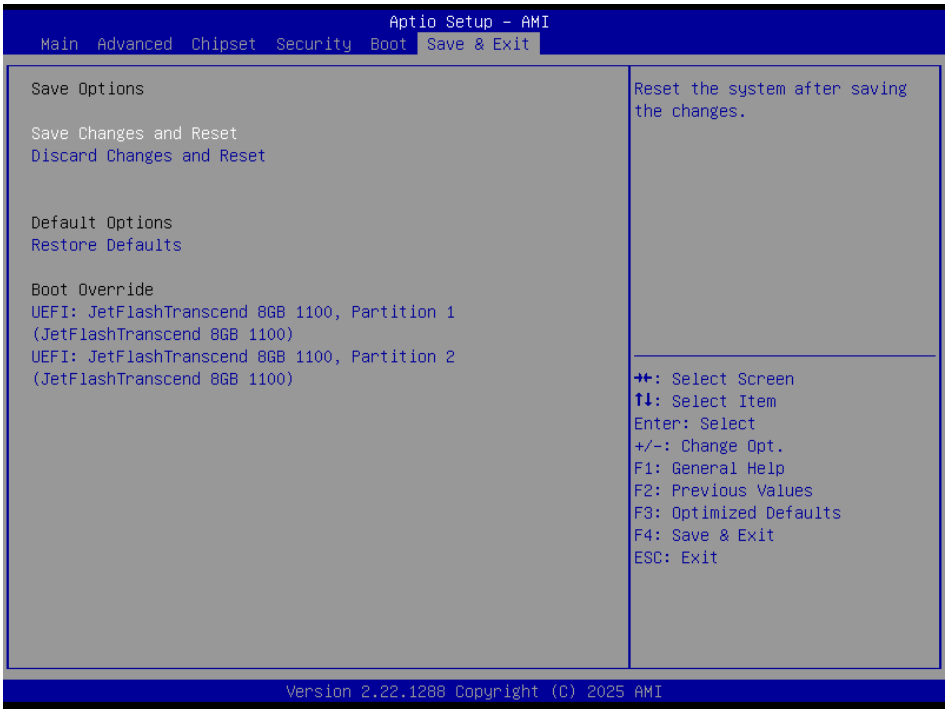


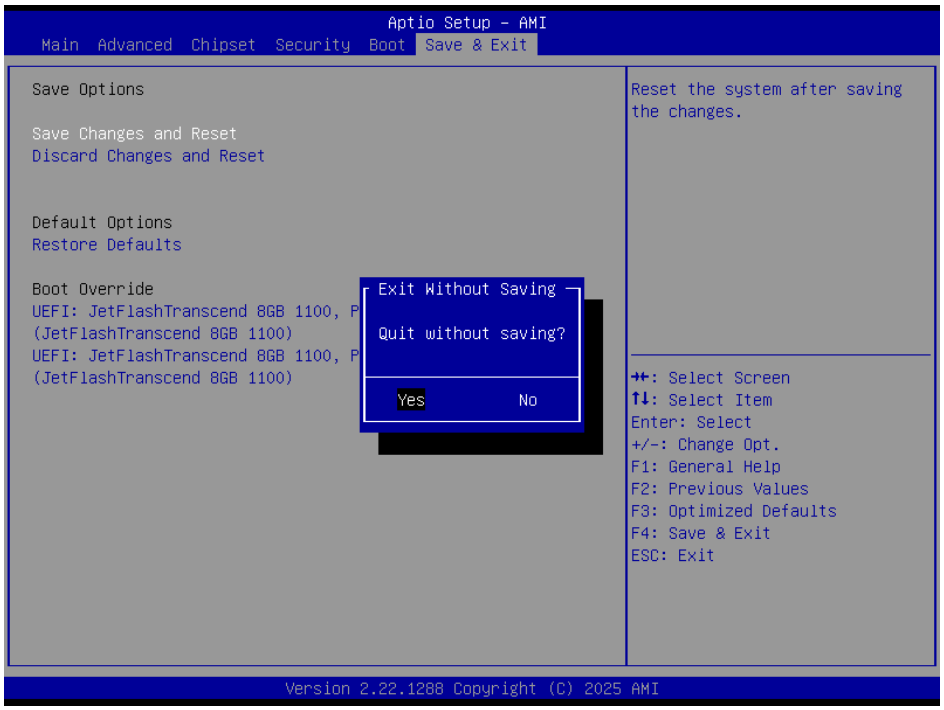
5.6.5 Boot



Item	Option	Description
Setup Prompt Timeout	1~ 65535	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Bootup NumLock State	On**[Default]** Off	Select the keyboard NumLock state
Quiet Boot	Disabled**[Default]** Enabled	Enables or disables Quiet Boot option
Boot Option #1/2	Set the system boot order.	

5.6.6 Save and Exit





5.6.6.1 Save Changes and Reset

Reset the system after saving the changes.

5.6.6.2 Discard Changes and Reset

Any changes made to BIOS settings during this session of the BIOS setup program are discarded. The setup program then exits and reboots the controller.

5.6.6.3 Restore Defaults

This option restores all BIOS settings to the factory default. This option is useful if the controller exhibits unpredictable behavior due to an incorrect or inappropriate BIOS setting.

5.6.6.4 Launch EFI Shell from filesystem device

Attempts to Launch EFI Shell application (Shellx64.efi) from one of the available filesystem devices.

6. General Safety Guide

For your own safety and that of your equipment, always take the following precautions.
Disconnect the power plug (by pulling the plug, not the cord), from your computer if any of the following conditions exists:
The power cord or plug becomes frayed or otherwise damaged
You spill something into the case
Your computer has been dropped or the case has been otherwise damaged
You suspect that your computer needs service or repair
You want to clean the computer or screen
You want to remove/install any parts

Thermal

The HID-1337 is a fanless design system, heat is dispatch through rear metal heatsink which is located at VESA mount area.. When using your HID-1337 systems, it is normal for the metal heatsink to get warm. The rear metal heatsink of the HID-1337 functions as a cooling surface that transfers heat from inside the computer to the cooler air outside. Do not block this heatsink by any soft material.

Disconnect the power

The only way to disconnect power completely is to unplug the adapter power cord.
Make sure at least one end of the power cord is within easy reach so that you can unplug the computer when you need to.

Warning! *Your AC cord came equipped with a three-wire grounding plug (a plug that has a third grounding pin). This plug will fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet is not grounded, contact a licensed electrician to replace the outlet with a properly grounded outlet. Do not defeat the purpose of the grounding plug.*

Warning! *Never push objects of any kind into this product through the openings in the case. Doing so may be dangerous and result in fire or a dangerous electric shock.*

Attention! *Votre cordon secteur est équipé d'une fiche de mise à la terre à trois fils (une fiche dotée d'une troisième broche de mise à la terre). Cette fiche ne s'adaptera qu'à une prise secteur mise à la terre. Si vous ne parvenez pas à insérer la fiche dans une prise car la prise n'est pas mise à la terre, contactez un électricien agréé pour remplacer la prise par une prise correctement mise à la terre. N'annulez pas l'objectif de la fiche de mise à la terre.*

Attention! *N'introduisez jamais d'objets d'aucune sorte dans ce produit par les ouvertures du boîtier. Cela pourrait être dangereux et provoquer un incendie ou un choc électrique dangereux.*

Never place anything on system case before turn off computer.
Never turn on your computer unless all of its internal and external parts are in place.
Operating the computer when it is open or missing parts can be dangerous and can damage your computer.

Proper Handling

Handle your HID-1337 with care. It is made of metal, glass, and plastic and has sensitive electronic components inside.
Don't use a damaged HID-1337, such as one with a cracked screen, as it may cause injury.
Setup HID-1337 on a stable work surface.
Do not push objects into the ventilation openings.
To lift or move your system, hold its sides.
When you move your system, do not hit the surface of the glass.