ASRock Industrial

IMB-1246

User Manual

Version 1.6

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HIGH-DEFINITION MULTIMEDIA INTERFACE

WARNING

THIS PRODUCT CONTAINS A BUTTON BATTERY
If swallowed, a button battery can cause serious injury or death.
Please keep batteries out of sight or reach of children.

CALIFORNIA, USA ONLY

The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.

"Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

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ASRockInd follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASRockInd product is in line with global environmental regulations. In addition, ASRockInd disclose the relevant information based on regulation requirements.

DO NOT throw the motherboard in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

Button Battery Safety Notice

⚠WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Battery type: CR2032
- Battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- This product contains an irreplaceable battery.
- This icon indicates that a swallowed button battery can cause serious injury or death. Please keep batteries out of sight or reach of children.

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Chapter 1 Introduction

Thank you for purchasing ASRockInd ***IMB-1246*** motherboard, a reliable motherboard produced under ASRockInd's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRockInd's commitment to quality and endurance.
In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 contains the configuration guide to BIOS setup.

Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRockInd website without further notice. You may find the latest CPU support lists on ASRockInd website as well.
ASRockInd website: https://www.asrockind.com/IMB-1246
If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.
https://www.asrockind.com/technical-support

1.1 Package Contents

ASRockIndI ***MB-1246*** Motherboard (Mini-ITX (6.7-in x 6.7-in x 1.4-in, 17.0 cm x 17.0 cm x 3.6 cm))

Gift Package:
1 x I/O Shield
2 x SCREW M3*2.5
1 x COM Cable
2 x SATA Cable
1 x 3.35mm M3 NUT

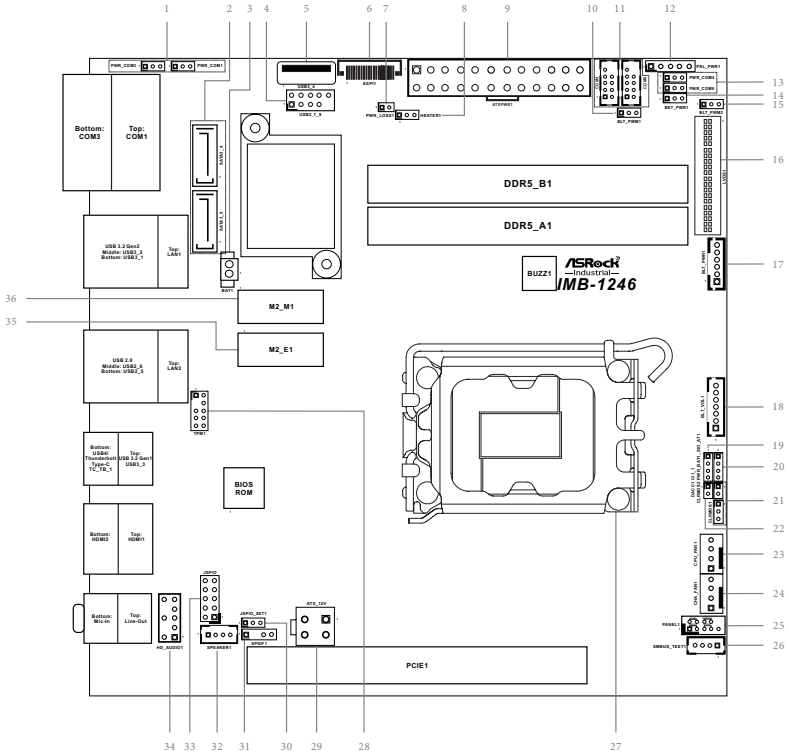
Bulk Package:
1 x I/O Shield
2 x SCREW M3*2.5
1 x 3.35mm M3 NUT

1.2 Specifications

Form Factor	Dimensions	Mini-ITX (6.7-in x 6.7-in x 1.4-in, 17.0 cm x 17.0 cm x 3.6 cm)
Processor System	CPU	Intel® Core™ Ultra Series 2 Processors (Arrow Lake-S), up to 65W
	Chipset	Intel® H810
	Socket	LGA1851
	BIOS	AMI SPI 256 Mbit
Memory	Technology	Dual Channel DDR5 5600/6400 MHz *Only CSO-DIMM can support up to 6400 MHz.
	Capacity	128 GB (64 GB per DIMM)
	Socket	2 x 262-pin SO-DIMM
Graphics	Controller	Intel® Xe LPG Graphics
	HDMI	HDMI 2.1 Max resolution up to 7680x4320@60Hz
	DisplayPort	DisplayPort 2.1, DP++ Max resolution up to 4096x2160@60Hz
	LVDS	Dual channel 24 bit up to 1920x1200@60Hz (Connector shared with eDP)
	eDP	Max resolution up to 1920x1080@60Hz (Connector shared with LVDS)
	MultiDisplay	Triple Display (Included 1 output from Type-C)
Expansion Slot	PCIe	1 x PCIe x16 (Gen5)
	M.2	1 x M.2 (Key E, 2230) with PCIe Gen4 x1, USB 2.0 and CNVio/CNVio2 for Wireless
Audio	Interface	Realtek ALC897, High Definition Audio. Line-out, Mic-in
Ethernet	Controller/ Speed	LAN1: Realtek RTL8125BG with 10/100/1000/2500 Mbps LAN2: Intel® I219V with 10/100/1000 Mbps
	Connector	2 x RJ-45

Rear I/O	HDMI	2 x HDMI 2.1
	Ethernet	1 x 2.5 Gigabit LAN 1 x 1 Gigabit LAN
	USB	1 x USB4/Thunderbolt™ 4 (5V/3A, supports DP 2.1 display output) 2 x USB 3.2 Gen2 1 x USB 3.2 Gen1 2 x USB 2.0 *For Thunderbolt support, please refer to support list.
	Audio	2 (Mic-in, Line-out or Mic-in, Line-in (optional))
	COM	COM1 (RS-232/422/485) COM3 (RS-232)
Internal Connector	USB	1 x USB 3.2 Gen1 (vertical connector) 2 x USB 2.0 (1 x 2.54 pitch header)
	COM	COM4, COM6 (RS-232)
	GPIO	4 x GPI, 4 x GPO
	LVDS	1 (Connector with LVDS/eDP signal, switch by BIOS) *To use an eDP panel, set Active LVDS to [Enable] and Panel Type Selection to [eDP Bypass Mode] to enable output.
	Speaker Header	1
Storage	M.2	1 x M.2 (Key M, 2242/2280/3052) with PCIe Gen4 x4 and SATA3 (optional) for SSD
	SATA	2 x SATA3 (6Gb/s)
Security	TPM	TPM Header Intel® PTT
Watchdog Timer	Output	From Super I/O to drag RESETCON#
	Interval	256 Segments, 0, 1, 2, ...255 sec
Power Requirements	Input PWR	ATX PWR (24+4-pin)
	Power On	AT/ATX Supported - AT: Directly PWR on as power input ready - ATX: Press button to PWR on after power input ready
Environment	Operating Temperature	-20 ºC ~ 70 ºC
	Storage Temperature	-40 °C ~ 85 °C
	Operating Humidity	5% ~ 90% (non-condensing)
	Storage Humidity	5% ~ 90% (non-condensing)

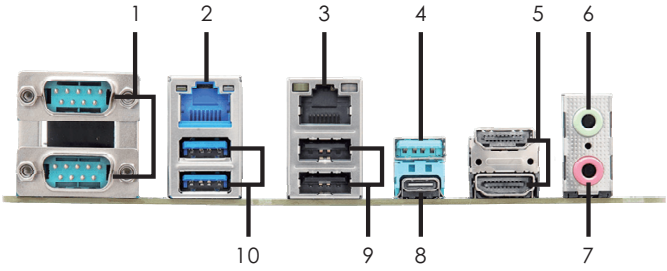
1.3 Motherboard Layout



ASRock Industrial has positioned the chipset on the rear of the PCB to optimize space and improve thermal dissipation when the chipset heatsink contacts the chassis via a thermal pad. Ensure the height of the chipset heatsink is considered during system integration.

1 : COM Port PWR Setting Jumpers
PWR_COM1 (For COM Port1)
PWR_COM3 (For COM Port3)
2 : SATA3 Connectors (SATA3_4, SATA3_5)
3 : Battery Connector (BAT1)
4 : USB 2.0 Header (USB2_7_8)
5 : USB 3.2 Gen1 Type-A Port (Vertical) (USB3_4)
6 : ESPI Header (ESPI1)
7 : Power Loss Header (PWR_LOSS1)
8 : Heater Connector (HEATER1)
9 : 24-pin ATX Power Input Connector (ATXPWR1)
10 : Brightness Control Mode (BLT_PWM1)
11 : COM Port Headers (COM 4, 6) (RS232)
12 : Panel Power Select (LCD_VCC) (PNL_PWR1)
13 : COM Port PWR Setting Jumpers
PWR_COM4 (For COM Port4)
PWR_COM6 (For COM Port6)
14 : Backlight Power Select (LCD_BLT_VCC) (BKT_PWR1)
15 : CON_LBKLT_CTL Voltage Level (BLT_PWM2)
16 : LVDS Panel Connector (LVDS1)
17 : Inverter Power Control Wafer (BLT_PWR1)
18 : Backlight Volume Control (BLT_VOL1)
19 : Chassis Intrusion Header (CI1_1)
20 : PWR_BAT1_SIO_AT1
21 : Clear CMOS Headers (CLRMOS1, CLRMOS2)
22 : DACC1
23 : CPU FAN Connector (+12V) (CPU_FAN1)
24 : Chassis FAN Connector (+12V) (CHA_FAN1)
25 : System Panel Header (PANEL1)
26 : SMBUS_TEST1
27 : LGA1851 RL-ILM
Use the CPU cooler with a minimum of 35lb of stastic compressive load for the LGA1851 RL-ILM (Reduced Load Independent Loading Mechnaism) socket.
28 : TPM Header (TPM1)
29 : 4-pin ATX PWR Connector (ATX_12V)
30 : Digital Input/Output Default Value Setting (JGPIO_SET1)
31 : SPDIF Header (SPDIF1)
32 : 3W Audio AMP Output Wafer (SPEAKER1)
33 : Digital Input/Output Pin Header (JGPIO1)
34 : Front Panel Audio Header (HD_AUDIO1)
35 : M.2 Key-E Socket (M2_E1)
36 : M.2 Key-M Socket (M2_M1)

1.4 I/O Panel



1 COM Port Headers
Top: COM1 (RS232/422/485)*
Bottom: COM 3 (RS232)

2 RJ45 2.5G LAN Port (LAN1)**

3 RJ45 1G LAN Port (LAN2)***

4 USB 3.2 Gen1 Port (USB3_3)

5 HDMI Ports
Top: HDMI1
Bottom: HDMI2

6 Audio Jack: Green - Line-Out

7 Audio Jack: Pink - Mic-In

8 USB4/Thunderbolt Type-C Port (TC_TB_1)

9 USB 2.0 Ports
Top: USB2_6
Bottom: USB2_5

10 USB 3.2 Gen2 Ports
Top: USB3_2
Bottom: USB3_1

* This motherboard supports RS232/422/485 on COM1 port. Please refer to the table below for the pin definition. In addition, COM1 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

COM1 Port Pin Definition

Pin	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	TX+	RTX+
3	TXD	RX+	NA
4	DTR	RX-	NA
5	GND	GND	GND
6	DSR	NA	NA
7	RTS	NA	NA
8	CTS	NA	NA
9	PWR	PWR	PWR

COM3 Port Pin Definition

Pin	RS232
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	PWR

** There are two LEDs on each LAN1 port. Please refer to the table below for the LAN1 port LED indications.

LAN1 Port LED Indications

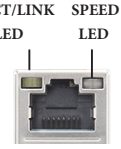
Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Link	Off	10/100Mbps connection
Blinking	Data Activity	Orange	1Gbps connection
On	Link	Green	2.5Gbps connection

LAN1 Port

*** There are two LEDs on each LAN2 port. Please refer to the table below for the LAN2 port LED indications.

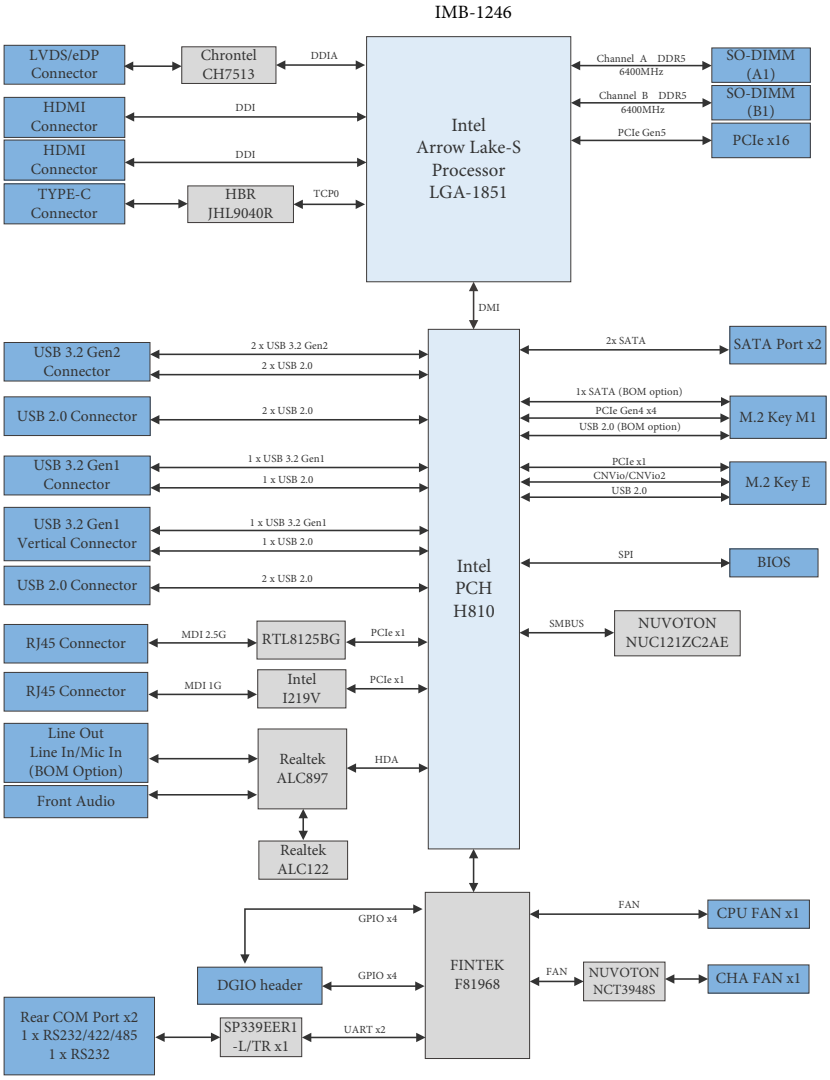
LAN2 Port LED Indications

Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps connection
On	Link	Green	1Gbps connection



LAN2 Port

1.5 Block Diagram



Chapter 2 Installation

This is a Mini-ITX (6.7-in x 6.7-in x 1.4-in, 17.0 cm x 17.0 cm x 3.6 cm) form factor motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.

Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so may cause physical injuries to you and damages to motherboard components.

2.1 Screw Holes

Place screws into the holes to secure the motherboard to the chassis.

Do not over-tighten the screws! Doing so may damage the motherboard.

2.2 Pre-installation Precautions

Take note of the following precautions before you install motherboard components or change any motherboard settings.

1. Unplug the power cord from the wall socket before touching any component.
2. To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that comes with the component.
5. Heatsink (The thermal solution of whole system needs to be designed additionally.)

Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

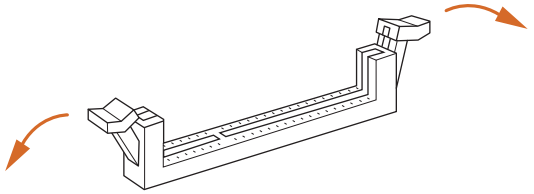
2.3 Installation of Memory Modules (DIMM)

IMB-1246 provides two 262-pin DDR5 (Double Data Rate 5) SO-DIMM slots, and supports Dual Channel Memory Technology.

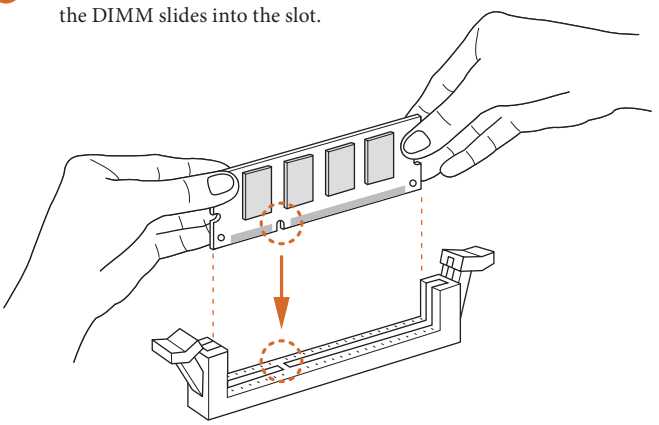
1. *For dual channel configuration, you always need to install identical (the same brand, speed, size and chip-type) DDR5 DIMM pairs.*
2. *It is unable to activate Dual Channel Memory Technology with only one memory module installed.*
3. *It is not allowed to install a DDR, DDR2, DDR3 or DDR4 memory module into a DDR5 slot; otherwise, this motherboard and DIMM may be damaged.*

The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot in the incorrect orientation.

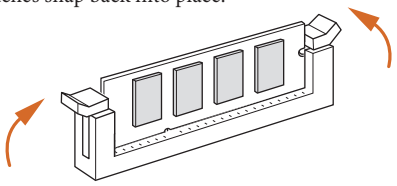
1 Open the DIMM slot latches.



2 Align the notch. Carefully press down until the DIMM slides into the slot.



3 The latches snap back into place.



2.4 Expansion Slots

There are one PCI Express slot and two M.2 sockets on this motherboard.

PCIE slot: PCIE1 (PCIe 5.0 x16 slot) is used for PCI Express cards at x16 lane width

M.2 sockets: 1 x M.2 (Key E, 2230) with PCIe Gen4 x1, USB 2.0 and CNVio/CNVio2 for Wireless
1 x M.2 (Key M, 2242/2280/3052) with PCIe Gen4x4 and SATA3 (optional) for SSD

M.2 Key-E Socket
(M2_E1)

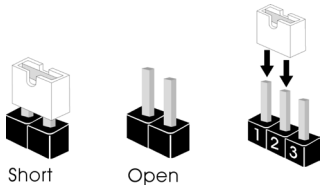
Pin	Signal Name	Signal Name	Pin
1	GND	+3.3V	2
3	USB_D+	+3.3V	4
5	USB_D-	NA	6
7	GND	NA	8
9	CNV_WGR_D1-	CNV_RF_RESET	10
11	CNV_WGR_D1+	NA	12
13	GND	MODEM_ CLKREQ	14
15	CNV_WGR_D0-	NA	16
17	CNV_WGR_D0+	GND	18
19	GND	NA	20
21	CNV_WGR_ CLK-	CNV_BRI_RSP	22
23	CNV_WGR_ CLK+		
		CNV_BGI_DT	32
33	GND	CNV_RGI_RSP	34
35	PETp	CNV_BRI_DT	36
37	PETn	NA	38
39	GND	NA	40
41	PERp	NA	42
43	PERn	NA	44
45	GND	NA	46
47	PEFCLKp	NA	48
49	PEFCLKn	SUSCLK	50
51	GND	PERST0#	52
53	CLKREQ#	W_DISABLE1#	54
55	NA	W_DISABLE2#	56
57	GND	SMB_DATA	58
59	CNV_WT_D1-	SMB_CLK	60
61	CNV_WT_D1+	NA	62
63	GND	NA	64
65	CNV_WT_D0-	NA	66
67	CNV_WT_D0+	NA	68
69	GND	NA	70
71	CNV_WT_CLK-	+3.3V	72
73	CNV_WT_CLK+	+3.3V	74
75	GND		

M.2 Key-M Socket
(M2_M1)

Pin	Signal Name	Signal Name	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	PERn3	NA	6
7	PERp3	NA	8
9	GND	SATA_LED	10
11	PETn3	+3.3V	12
13	PETp3	+3.3V	14
15	GND	+3.3V	16
17	PERn2	+3.3V	18
19	PERp2	NA	20
21	GND	NA	22
23	PETn2	NA	24
25	PETp2	NA	26
27	GND	NA	28
29	PERn1	NA	30
31	PERp1	NA	32
33	GND	USB 7+ (Colay Internal U2)	34
35	PETn1	USB 7- (Colay Internal U2)	36
37	PETp1	NA	38
39	GND	SMB_CLK	40
41	PERn0/SATA-B+	SMB_DATA	42
43	PERp0/SATA-B-	NA	44
45	GND	NA	46
47	PETn0/SATA-A-	NA	48
49	PETP0/SATA-A+	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	NA	54
55	PEFCLKp	NA	56
57	GND	NA	58
67	NA	NA	68
69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	GND		

2.5 Jumpers Setup

The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is "Short." If no jumper cap is placed on pins, the jumper is "Open." The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when jumper cap is placed on these 2 pins.



COM Port Pin9 PWR Setting Jumpers

(3-pin PWR_COM1 (For COM Port1))
(3-pin PWR_COM3 (For COM Port3))
(see p. 4, No. 1)

Setting	Description
Open	+0V
1-2	+5V (Default)
2-3	+12V

(3-pin PWR_COM4 (For COM Port4))
(3-pin PWR_COM6 (For COM Port6))
(see p. 4, No. 13)

PWR Loss Header

(2-pin PWR_LOSS1)
(see p. 4, No. 7)

Setting	Description
Open	No Power Loss
Short	Power Loss (Default)

Brightness Control Mode

(3-pin BLT_PWM1)
(see p. 4, No. 10)

Setting	Description
1-2	From eDP PWM to CON_LBKLT_CTL
2-3	From LVDS PWM to CON_LBKLT_CTL

Please set to 1-2 when adjusting brightness by Brightness Control bar under OS.
Please set to 2-3 when adjusting brightness by BLT_VOL1.

Panel Power Select (LCD_VCC)

(5-pin PNL_PWR1)
(see p. 4, No. 12)

Setting	Description
1-2	LCD_VCC +3V (Default)
2-3	LCD_VCC +5V
4-5	LCD_VCC +12V

Use this to set up the VDD power of the LVDS connector.

Backlight Power Select (LCD_BLT_VCC)

(3-pin BKT_PWR1)

(see p. 4, No. 14)

Setting	Description
1-2	LCD_BLT_VCC : +5V (Default)
2-3	LCD_BLT_VCC : +12V

Brightness Control Mode

(3-pin BLT_PWM2)

(see p. 4, No. 15)

Setting	Description
1-2	3V Level (Default)
2-3	5V Level

Chassis Intrusion Header

(see p. 4, No. 19)

(4-pin CI1_1)

Pin	Description
1-2	Open: Normal (Default) Short: Active Case Open

This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

PWR_BAT1_SIO_AT1

(4-pin PWR_BAT1_SIO_AT1)

(see p. 4, No. 20)

Pin	Description
1-2	Open: Normal (Default) Short: Charge Battery* *Only supported by chargeable battery.
3-4	Short : AT Mode Open : ATX Mode (Default)

Clear CMOS Jumpers

(3-pin CLRMOS1)

(see p. 4, No. 21)

Setting	Description
1-2	Normal (Default)
2-3	Clear CMOS

Note: CLRMOS1 allows you to clear the data in CMOS. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action. Please be noted that the date, time and user default profile will be cleared only if the CMOS battery is removed.

(2-pin CLRMOS1)
(see p. 4, No. 21)

Setting	Description
Open	Normal (Default)
Short	Auto Clear CMOS (Power off)

Note: CLRMOS2 allows you to clear the data in CMOS automatically when AC power on. The data in CMOS includes system setup information such as system password, date, time, and system setup parameters. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord, then use a jumper cap to short the pins on CLRMOS2.

DACC1

(2-pin DACC1)

(see p. 4, No. 22)

Setting	Description
Open	No ACC
Short	ACC (Default)

Auto clear CMOS when system boot improperly.

Digital Input/Output Default Value Setting

(3-pin JGPIO_SET1)

(see p. 4, No. 30)

Setting	Description
1-2	Pull-High (Default)
2-3	Pull-Low

2.6 Onboard Headers and Connectors

Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage to the motherboard!

SATA3 Connectors

(7-pin SATA3_4, SATA3_5)

(see p. 4, No. 2)

Pin	Signal Name
1	GND
2	SATA-A+
3	SATA-A-
4	GND
5	SATA-B-
6	SATA-B+
7	GND

The Serial ATA3 (SATA3) connectors support SATA data cables for internal storage devices. The current SATA3 interface allows up to 6.0 Gb/s data transfer rate.

Battery Connector

(BAT1)

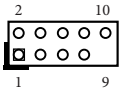
(see p. 4, No. 3)

Pin	Signal Name
1	+BAT
2	GND

USB 2.0 Header

(9-pin USB2_7_8)

(see p. 4, No. 4)



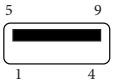
Pin	Signal Name	Signal Name	Pin
1	USB_PWR	USB_PWR	2
3	USB_D-	USB_D-	4
5	USB_D+	USB_D+	6
7	GND	GND	8
9		DUMMY	10

There is one USB 2.0 header on this motherboard. This USB 2.0 header can support two USB 2.0 ports.

USB 3.2 Gen1 Type-A Port (Vertical)

(9-pin USB3_4)

(see p. 4, No. 5)



Pin	Signal Name
1	USB_PWR
2	USB_D-
3	USB_D+
4	GND
5	SSRX-
6	SSRX+
7	GND
8	SSTX-
9	SSTX+

The board provides one internal USB 3.2 Gen1 header, which is Type-A vertical connector. The maximum current per port is 0.9A.

ESPI Header (ESPI1)

(20-pin ESPI1)

(see p. 4, No. 6)

Pin	Signal Name
1	GND
2	ESPI_CLK
3	GND
4	ESPI_CS#
5	ESPI_RESET#
6	GND
7	+3V
8	ESPI_CS#1
9	PLTRST#
10	COM_RST#
11	ESPI_IO0
12	ESPI_IO1
13	ESPI_IO2
14	ESPI_IO3
15	ALERT#1
16	+3VSB
17	Internal Use
18	+5VSB
19	ESPI_ALERT#
20	GND

HEATER Header

(3-pin HEATER1)

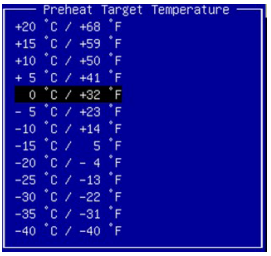
(see p. 4, No. 8)

Pin	Signal Name
1	Heater_PWR (5V/1A)
2	GND
3	NTC (Negative Temperature Coefficient) thermistors

* The 10k Ohm NTC thermistors is suggested.

* Deep mode is not supported when the preheat function is enabled.

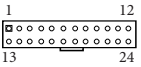
Refer to the following Preheat Targer Temperature list.



24-pin ATX Power Input Connector

(24-pin ATXPWR1)

(see p. 4, No. 9)



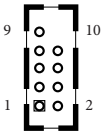
Pin	Signal Name	Signal Name	Pin
1	+3V	+3V	13
2	+3V	-12V	14
3	GND	GND	15
4	+5V	PSON#	16
5	GND	GND	17
6	+5V	GND	18
7	GND	GND	19
8	PWROK_PS	NA	20
9	ATX+5VSB	+5V	21
10	+12V	+5V	22
11	+12V	+5V	23
12	+3V	GND	24

This motherboard provides a 24-pin ATX power connector. To use a 20-pin ATX power supply, plug it along Pin 1 and Pin 13.

COM Port Headers (RS232)

(9-pin COM4, COM6)

(see p. 4, No. 11)

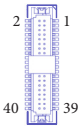


Pin	Signal Name	Signal Name	Pin
1	DCD	RXD	2
3	TXD	DTR	4
5	GND	DSR	6
7	RTS	CTS	8
9	PWR		10

LVDS Panel Connector

(40-pin LVDS1)

(see p. 4, No. 16)



Pin	Signal Name	Signal Name	Pin
1	LCD_VCC	LCD_VCC	2
3	+3.3V	NA	4
5	NA	LVDS_A_DATA0#	6
7	LVDS_A_DATA0	GND	8
9	LVDS_A_DATA1#	LVDS_A_DATA1	10
11	GND	LVDS_A_DATA2#	12
13	LVDS_A_DATA2	GND	14
15	LVDS_A_DATA3#	LVDS_A_DATA3	16
17	GND	LVDS_A_CLK#	18
19	LVDS_A_CLK	GND	20
21	LVDS_B_DATA0#	LVDS_B_DATA0	22
23	GND	LVDS_B_DATA1#	24
25	LVDS_B_DATA1	GND	26
27	LVDS_B_DATA2#	LVDS_B_DATA2	28
29	DPLVDD_EN	LVDS_B_DATA3#	30
31	LVDS_B_DATA3	GND	32
33	LVDS_B_CLK#	LVDS_B_CLK	34
35	GND	CON_LBKLT_EN	36
37	CON_LBKLT_CTL	LCD_BLT_VCC	38
39	LCD_BLT_VCC	LCD_BLT_VCC	40

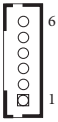
* eDP by pass mode pin definition (switch by BIOS) :

Pin	Signal Name	Signal Name	Pin
1	LCD_VCC	LCD_VCC	2
3	NA	NA	4
5	NA	NA	6
7	NA	GND	8
9	EDP_TX1#	EDP_TX1	10
11	GND	EDP_TX0#	12
13	EDP_TX0	GND	14
15	NA	NA	16
17	GND	EDP_AUXN	18
19	EDP_AUXP	GND	20
21	NA	NA	22
23	GND	NA	24
25	NA	GND	26
27	NA	NA	28
29	DPLVDD_EN	NA	30
31	NA	GND	32
33	NA	NA	34
35	GND	CON_LBKLT_EN	36
37	CON_LBKLT_CTL	LCD_BLT_VCC	38
39	LCD_BLT_VCC	LCD_BLT_VCC	40

Inverter Power Control Wafer

(6-pin BLT_PWR1)

(see p. 4, No. 17)



Pin	Signal Name
1	GND
2	GND
3	CON_LBKLT_CTL
4	CON_LBKLT_EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC

Backlight Volume Control

(7-pin BLT_VOL1)

(see p. 4, No. 18)

Pin	Signal Name
1	GPIO_VOL_UP
2	GPIO_VOL_DW
3	PWRDN
4	BLT_UP
5	BLT_DW
6	GND
7	GND

CPU Fan Connector (+12V)

(4-pin CPU_FAN1)

(see p. 4, No. 23)

Pin	Signal Name
1	GND
2	+12V
3	CPU_FAN_SPEED
4	FAN_SPEED_CONTROL

Though this motherboard provides 4-Pin CPU fan (Quiet Fan) support, the 3-Pin CPU fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin CPU fan to the CPU fan connector on this motherboard, please connect it to Pin 1-3. The maximum current is 1A.

Chassis FAN Connectors (+12V)

(4-pin CHA_FAN1)

(see p. 4, No. 24)

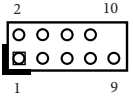
Pin	Signal Name
1	GND
2	+12V
3	CHA_FAN_SPEED
4	FAN_SPEED_CONTROL

Though this motherboard provides 4-Pin chassis fan (Quiet Fan) support, the 3-Pin chassis fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin chassis fan to the chassis fan connector on this motherboard, please connect it to Pin 1-3. The maximum current is 1A.

System Panel Header

(9-pin PANEL1)

(see p. 4, No. 25)



Pin	Signal Name	Signal Name	Pin
1	HDLED+	PLED+	2
3	HDLED-	PLED-	4
5	GND	PWRBTN#	6
7	RESET#	GND	8
9	+5VSB		10

This header accommodates several system front panel functions.

Connect the power switch, reset switch and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

PWRBTN (Power Switch):
Connect to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch.
RESET (Reset Switch):
Connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.
PLED (System Power LED):
Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S3/S4 sleep state or powered off (S5).

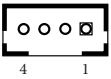
HDLED (Hard Drive Activity LED):
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

SMBUS_TEST1

(4-pin SMBUS_TEST1)

(see p. 4, No. 26)

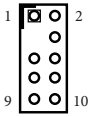


Pin	Signal Name
1	GPP_E12
2	SMB_CLK_MAIIN
3	SMB_DATA_MAIN
4	GND

TPM Header

(9-pin TPM1)

(see p. 4, No. 28)

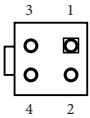


Pin	Signal Name	Signal Name	Pin
1	TPM PWR	RST#	2
3		CS#	4
5	IRA	MOSI	6
7	MISO	GND	8
9	CLK	GND	10

4-pin ATX PWR Connector

(4-pin ATX_12V)

(see p. 4, No. 29)



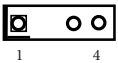
Pin	Signal Name	Signal Name	Pin
1	GND	GND	2
3	DC Input	DC Input	4

Please connect a DC +12V power supply to this connector.

SPDIF Header

(3-pin SPDIF1)

(see p. 4, No. 31)



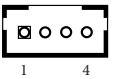
Pin	Signal Name
1	+5V
2	
3	SPDIF OUT
4	GND

SPDIF header, providing SPDIF audio output to HDMI VGA card, allows the system to connect HDMI Digital TV/projector/LCD devices. Please connect the SPDIF connector of HDMI VGA card to this header.

3W Audio AMP Output Wafer

(4-pin SPEAKER1)

(see p. 4, No. 32)

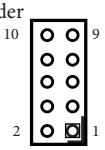


Pin	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN

Digital Input/Output Pin Header

(10-pin JGPIO1)

(see p. 4, No. 33)



Pin	Signal Name	Signal Name	Pin
1	GPP_E4	GPP_SD00	2
3	GPP_E5	GPP_SD01	4
5	GPP_E6	GPP_I02	6
7	GPP_E7	GPP_I03	8
9	JGPIOPWR_R	GND	10

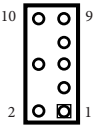
Parameter	Range
GPIO input Low voltage	Max: 0.8V
GPIO input High voltage	Low: 2V
GPIO output Low voltage	Max: 0.4V
GPIO output High voltage	Low: 2.4V

Note:
Max. load per GPI/O pin: 12mA
Current Max. 1A per power pin.

Front Panel Audio Header

(8-pin HD_AUDIO1)

(see p. 4, No. 34)



Pin	Signal Name	Signal Name	Pin
1	MIC2_L	GND	2
3	MIC2_R		4
5	OUT2_R	MIC_RET	6
7	J_SENSE		8
9	OUT2_L	OUT_RET	10

This is an interface for front panel audio cable that allows convenient connection and control of audio devices.

Chapter 3 UEFI SETUP UTILITY

3.1 Introduction

ASRock Industrial UEFI (Unified Extensible Firmware Interface) is a BIOS utility which offers tweak-friendly options in an advanced viewing interface. The UEFI system works with a USB mouse and offers users a faster, sleeker experience.

This BIOS utility can perform the Power-On Self-Test (POST) during system startup, record hardware parameters of the system, load operating system, and so on. The battery on the motherboard supplies the power needed to the CMOS when the system power is turned off, and the values configured in the UEFI utility are kept in the CMOS.

Please note that inadequate BIOS settings may cause system instability, mulfunction or boot failure. We strongly recommend that you do not alter the UEFI default configurations or change the settings only with the assistance of a trained service person.

If the system becomes unstable or fails to boot after you change the setting, try to clear the CMOS values and reset the board to default values. See your motherboard manual for instructions.

3.1.1 Entering BIOS Setup

You may run the UEFI SETUP UTILITY by pressing <F2> or <Delete> right after you power on the computer; otherwise, the Power-On-Self-Test (POST) will continue with its test routines. If you wish to enter the UEFI SETUP UTILITY after POST, restart the system by pressing <Ctl> + <Alt> + <Delete>, or by pressing the reset button on the system chassis. You may also restart by turning the system off and then back on.

This setup guide explains how to use the UEFI SETUP UTILITY to configure all the supported system. The screenshots in this manual are for reference only. UEFI Settings and options may vary owing to different BIOS release versions or CPU installed. Please refer to the actual BIOS version of the motherboard you purchased for detailed screens, settings and options.

3.1.2 UEFI Menu Bar

The top of the screen has a menu bar with the following selections:

Main	For setting system time/date information
Advanced	For advanced system configurations
H/W Monitor	Displays current hardware status
Security	For security settings
Boot	For configuring boot settings and boot priority
Exit	Exit the current screen or the UEFI Setup Utility

Because the UEFI software is constantly being updated, the following UEFI setup screens and descriptions for reference purpose only, and may vary from the latest BIOS and do not exactly match what you see on your screen.

3.1.3 Navigation Keys

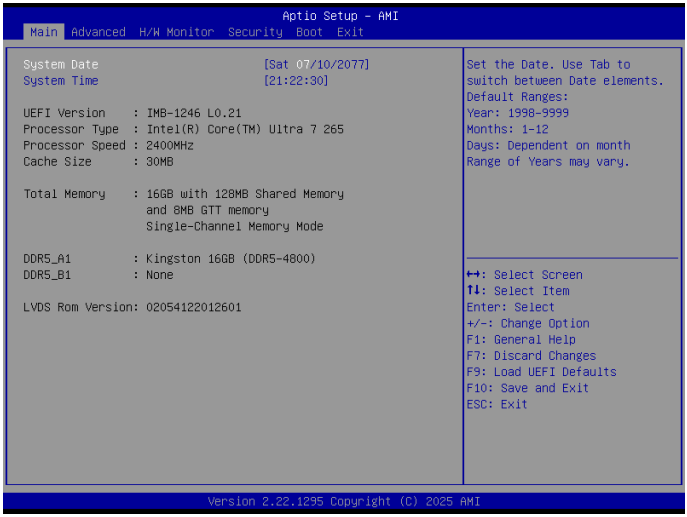
Use <← > key or < → > key to choose among the selections on the menu bar, and use < ↑ > key or < ↓ > key to move the cursor up or down to select items, then press <Enter> to get into the sub screen. You can also use the mouse to click your required item.

Please check the following table for the descriptions of each navigation key.

Navigation Key(s)	Description
+ / -	To change option for the selected items
<Tab>	Switch to next function
<PGUP>	Go to the previous page
<PGDN>	Go to the next page
<HOME>	Go to the top of the screen
<END>	Go to the bottom of the screen
<F1>	To display the General Help Screen
<F7>	Discard changes and exit the SETUP UTILITY
<F9>	Load optimal default values for all the settings
<F10>	Save changes and exit the SETUP UTILITY
<F12>	Print screen
<ESC>	Jump to the Exit Screen or exit the current screen

3.2 Main Screen

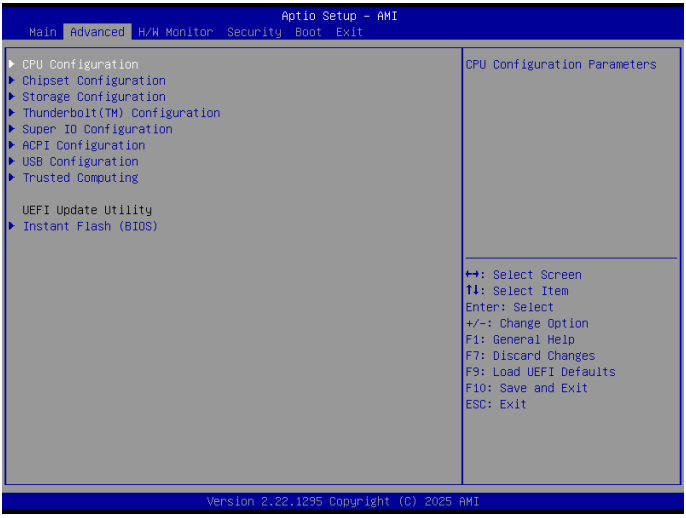
When you enter the UEFI Setup Utility, the Main screen will appear and display the system overview.



Because the UEFI software is constantly being updated, the following UEFI setup screens and descriptions are for reference purpose only, and they may not exactly match what you see on your screen. Options may also vary depending on the features of your motherboard.

3.3 Advanced Screen

In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, Storage Configuration, Thunderbolt (TM) Configuration, Super IO Configuration, ACPI Configuration, USB Configuration, and Trusted Computing.

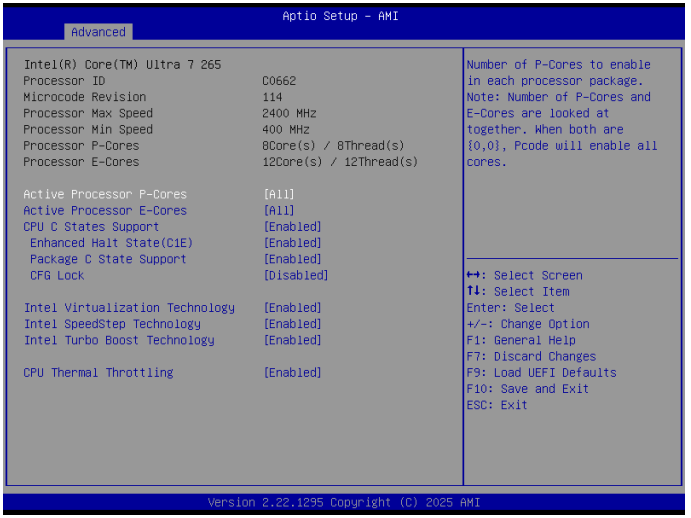


Setting wrong values in this section may cause the system to malfunction.

Instant Flash (BIOS)

Instant Flash (BIOS) is a UEFI flash utility embedded in Flash ROM. This convenient UEFI update tool allows you to update system UEFI without entering operating systems first like Windows®. Just launch this tool and save the new UEFI file to your USB flash drive, floppy disk or hard drive, and then you can update your UEFI in only a few clicks without preparing an additional floppy diskette or other complicated flash utility. Please be noted that the USB flash drive or hard drive must use FAT32/16/12 file system. If you execute Instant Flash (BIOS) utility, the utility will show the UEFI files and their respective information. Select the proper UEFI file to update your UEFI, and reboot your system after UEFI update process completes.

3.3.1 CPU Configuration



Active Processor P-Cores

This allows you to select the number of cores to enable in each processor package.

Active Processor E-Cores

This allows you to select the number of E-Cores to enable in each processor package. NOTE: Number of P-Cores and E-Cores are looked at together. When both are {0,0}, Pcode will enable all cores.

CPU C States Support

This allows you to enable CPU C States Support for power saving. It is recommended to keep C3, C6 and C7 all enabled for better power saving.

Configuration options: [Enabled] [Disabled]

Enhanced Halt State (C1E)

The option allows you to enable Enhanced Halt State (C1E) for lower power consumption.

Configuration options: [Enabled] [Disabled]

Package C State Support

The option allows you to enable CPU, PCIe, Memory, Graphics C State Support for power saving.

CFG Lock

The option allows you to enable or disable the CFG Lock.

Configuration options: [Enabled] [Disabled]

Intel Virtualization Technology

Intel Virtualization Technology allows a platform to run multiple operating systems and applications in independent partitions, so that one computer system can function as multiple virtual systems.

Configuration options: [Enabled] [Disabled]

Intel SpeedStep Technology

Intel SpeedStep technology allows processors to switch between multiple frequencies and voltage points for better power saving and heat dissipation. CPU turbo ratio can be fixed when Intel SpeedStep Technology is set to [Disabled].

Configuration options: [Enabled] [Disabled].

If you install Windows® 10/11 and want to enable this function, please set this item to [Enabled]. This item will be hidden if the current CPU does not support Intel SpeedStep technology.

Please note that enabling this function may reduce CPU voltage and lead to system stability or compatibility issues with some power supplies. Please set this item to [Disabled] if above issues occur.

Intel Turbo Boost Technology

Intel Turbo Boost Technology enables the processor to run above its base operating frequency when the operating system requests the highest performance state. The default value is [Enabled].

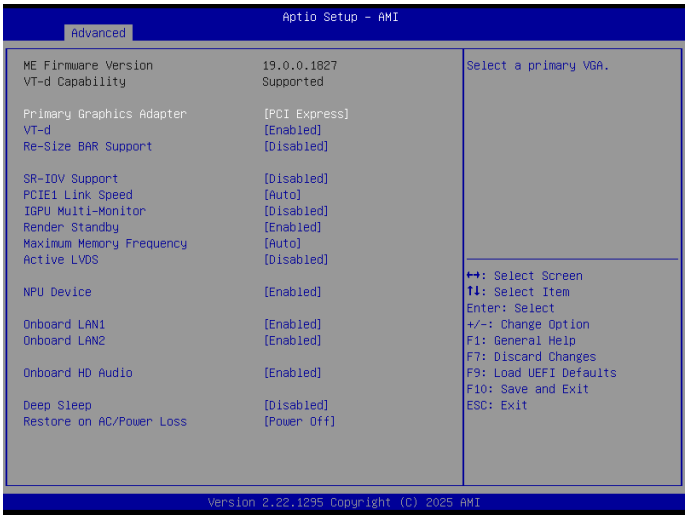
Configuration options: [Enabled] [Disabled]

CPU Thermal Throttling

CPU Thermal Throttling allows you to enable CPU internal thermal control mechanisms to keep the CPU from overheating.

Configuration options: [Enabled] [Disabled]

3.3.2 Chipset Configuration



Primary Graphics Adapter

The option allows you to select a primary VGA.

Configuration options: [Onboard] [PCI Express] (Options vary when you have installed a graphics card on your motherboard.)

VT-d

Intel® Virtualization Technology for Directed I/O helps your virtual machine monitor better utilize hardware by improving application compatibility and reliability, and providing additional levels of manageability, security, isolation, and I/O performance.

Configuration options: [Enabled] [Disabled]

Re-Size BAR Support

If system has Resizable BAR capable PCIe Devices, this option enables or disables Resizable BAR Support.

SR-IOV Support

If system has SR-IOV capable PCIe Devices, this option Enables or Disables Single Root IO Virtualization Support.

Configuration options: [Enabled] [Disabled]

PCIE1 Link Speed

The option allows you to configure PCIE1 Slot Link Speed. Auto mode is optimizing for overclocking.

Configuration options: [Auto] [Gen1] [Gen2] [Gen3] [Gen4] [Gen5] (Options vary depending on your motherboard.)

IGPU Multi-Monitor

Select [Disabled] to disable the integrated graphics when an external graphics card is installed. Select [Enabled] to keep the integrated graphics enabled at all times.

Configuration options: [Enabled] [Disabled]

Render Standby

Power down the render unit when the GPU is idle for lower power consumption.

Maximum Memory Frequency

Selections in Mhz.

Active LVDS

Use this option to enable or disable the LVDS. The default value is [Disabled]. Set the item to [Enabled]. Then press <F10> to save the setting and restart the system. Now the default value of Active LVDS is changed to ENABLED (F9 load default is also set to ENABLED).

Change the setting from [Enabled] to [Disabled], and then press <F10> to save the setting and restart the system. Likewise, the default value of Active LVDS is changed to DISABLED (F9 load default is also set to DISABLED).

*To use an edp panel, set Active LVDS to [Enable] and Panel Type Selection to [edp Bypass Mode] to enable output.

NPU Device

This allows you to enable or disable NPU (Neural Processing Unit) Device.

Configuration options: [Enabled] [Disabled]

Onboard LAN1

This allows you to enable or disable the Onboard LAN1 feature.

Onboard LAN2

This allows you to enable or disable the Onboard LAN2 feature.

Onboard HD Audio

Onboard HD Audio allows you to enable or disable the onboard HD audio controller. Set this item to [Auto] to enable the onboard HD and automatically disable it when a sound card is installed.

Configuration options: [Enabled] [Disabled]

Deep Sleep

Configure deep sleep mode for power saving when the computer is shut down. We recommend disabling Deep Sleep for better system compatibility and stability.

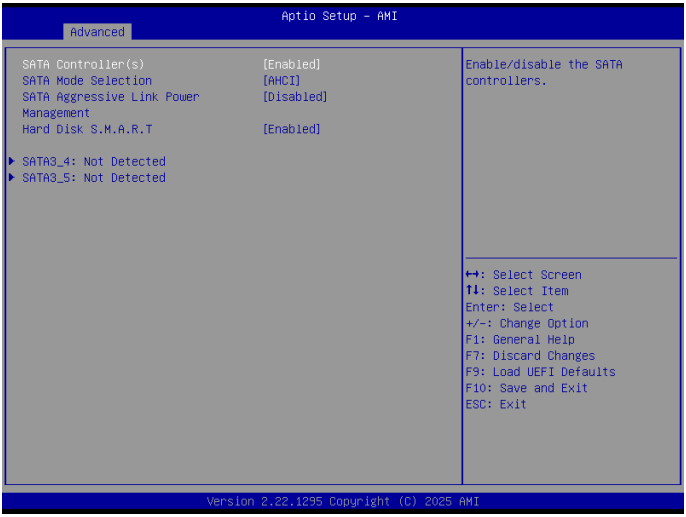
Restore on AC/Power Loss

The option allows you to select the power state after a power failure.

[Power Off] sets the power to remain off when the power recovers.

[Power On] sets the system to start to boot up when the power recovers.

3.3.3 Storage Configuration



SATA Controller(s)

The option allows you to enable or disable the SATA controllers.

Configuration options: [Enabled] [Disabled]

SATA Mode Selection

AHCI supports new features that improve performance.

Configuration option: [AHCI]

SATA Aggressive Link Power Management

SATA Aggressive Link Power Management allows SATA devices to enter a low power state during periods of inactivity to save power. It is supported only by AHCI mode.

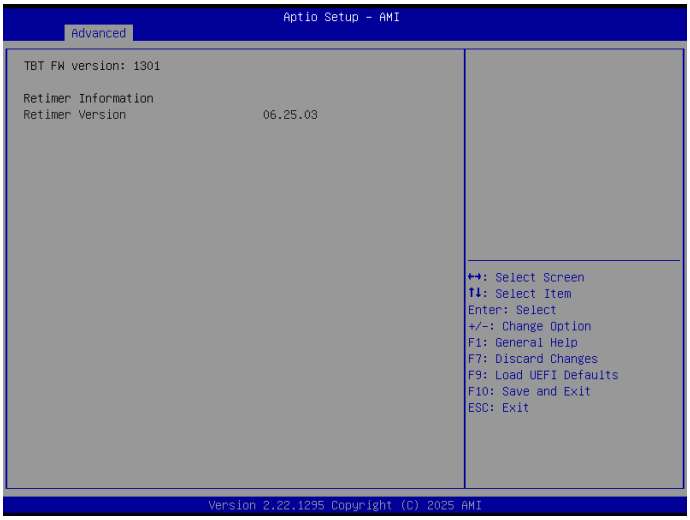
Configuration options: [Enabled] [Disabled]

Hard Disk S.M.A.R.T.

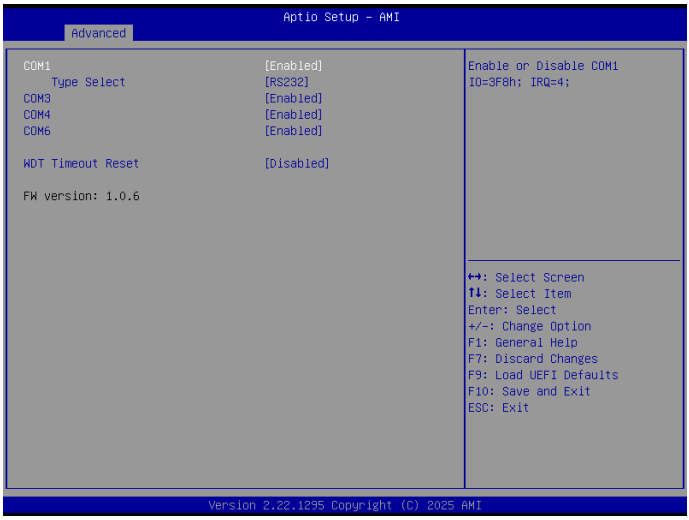
S.M.A.R.T stands for Self-Monitoring, Analysis, and Reporting Technology. It is a monitoring system for computer hard disk drives to detect and report on various indicators of reliability.

Configuration options: [Enabled] [Disabled]

3.3.4 Thunderbolt (TM) Configuration



3.3.5 Super IO Configuration



COM1 Configuration

Use this to set parameters of COM1.

Type Select

Use this to select COM1 port type: [RS232], [RS422] or [RS485].

COM3 Configuration

Use this to set parameters of COM3.

COM4 Configuration

Use this to set parameters of COM4.

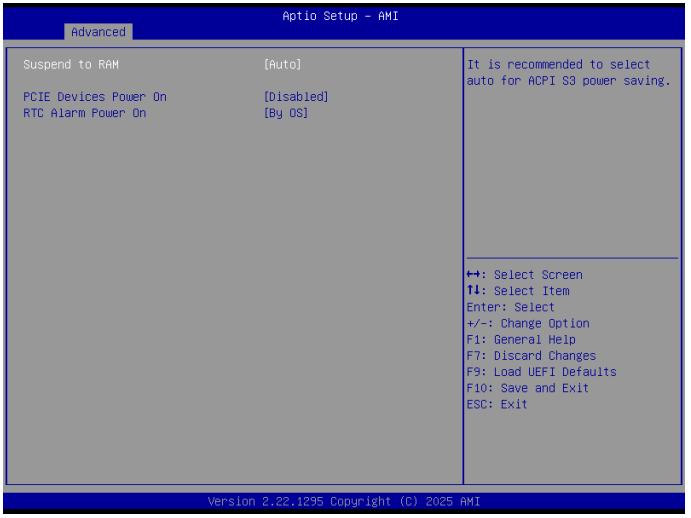
COM6 Configuration

Use this to set parameters of COM6.

WDT Timeout Reset

Use this to set the Watch Dog Timer.

3.3.6 ACPI Configuration



Suspend to RAM

Suspend to RAM allows you to select [Disabled] for ACPI suspend type S1. It is recommended to select [Auto] for ACPI S3 power saving.

Configuration options: [Auto] [Disabled]

PCIE Devices Power On

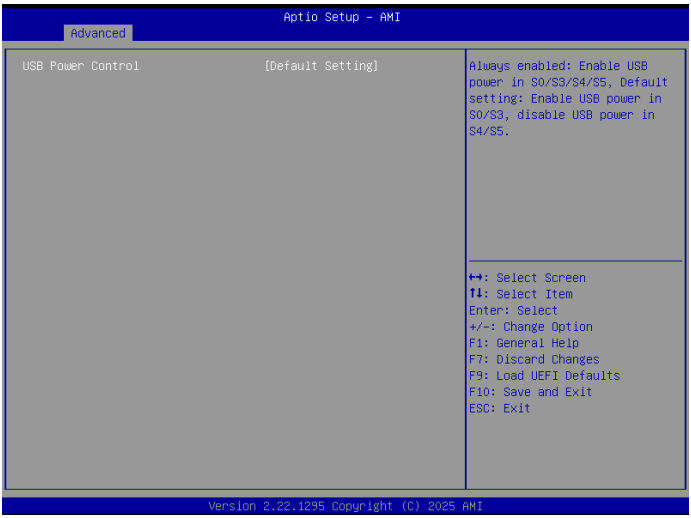
Use this item to enable or disable PCIE devices to turn on the system from the power-soft-off mode.

RTC Alarm Power On

RTC Alarm Power On allows the system to be waked up by the real time clock alarm. Set it to By OS to let it be handled by your operating system.

Configuration options: [Enabled] [Disabled] [By OS]

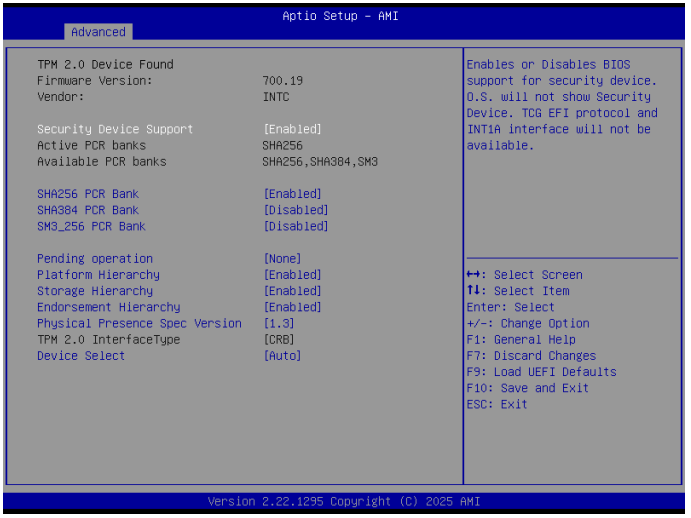
3.3.7 USB Configuration



USB Power Control

Use this option to control USB power.

3.3.8 Trusted Computing



NOTE: Options vary depending on the version of your connected TPM module.

Security Device Support

Security Device Support allows you to enable or disable BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

Configuration options: [Enabled] [Disabled]

Active PCR banks

This item displays active PCR Banks.

Available PCR Banks

This item displays available PCR Banks.

SHA256 PCR Bank

SHA256 PCR Bank allows you to enable or disable SHA256 PCR Bank.

Configuration options: [Enabled] [Disabled]

SHA384 PCR Bank

SHA384 PCR Bank allows you to enable or disable SHA384 PCR Bank.

Configuration options: [Enabled] [Disabled]

SM3_256 PCR Bank

The item allows you to enable or disable SM3_256 PCR Bank.

Configuration options: [Enabled] [Disabled]

Pending Operation

Pending Operation allows you to schedule an Operation for the Security Device.

NOTE: Your computer will reboot during restart in order to change State of the Device.

Configuration options: [None] [TPM Clear]

Platform Hierarchy

This item allows you to enable or disable Platform Hierarchy.

Configuration options: [Enabled] [Disabled]

Storage Hierarchy

This item allows you to enable or disable Storage Hierarchy.

Configuration options: [Enabled] [Disabled]

Endorsement Hierarchy

This item allows you to enable or disable Endorsement Hierarchy.

Configuration options: [Enabled] [Disabled]

Physical Presence Spec Version

Select this item to tell OS to support PPI spec version 1.2 or 1.3. Please note that some HCK tests might not support version 1.3.

Configuration options: [1.2] [1.3]

TPM 2.0 InterfaceType

This item allows you to view the Communication Interface to TPM 2.0 Device: CRB or ITS.

Device Select

This item allows you to select the TPM device to be supported.

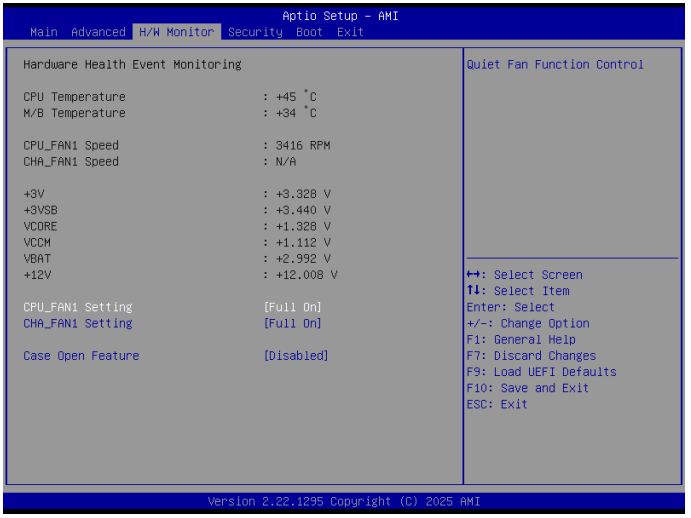
[TPM 1.2] restricts support to TPM 1.2 devices.

[TPM 2.0] restricts support to TPM 2.0 devices.

[Auto] supports both TPM 1.2 and TPM 2.0 devices with the default set to TPM 2.0 devices. If TPM 2.0 devices are not found, TPM 1.2 devices will be enumerated.

3.4 Hardware Health Event Monitoring Screen

This section allows you to monitor the status of the hardware on your system, including the parameters of the CPU temperature, motherboard temperature, CPU fan speed, chassis fan speed, and the critical voltage.



NOTE: Options vary depending on the features of your motherboard.

CPU_Fan 1 Setting

This item allows you to select a fan mode for CPU Fan 1. The default value is [Full On].

Configuration options: [Full On] [Automatic Mode]

CHA_Fan 1 Setting

This allows you to set chassis fan 1's speed. The default value is [Full On].

Configuration options: [Full On] [Automatic Mode]

Case Open Feature

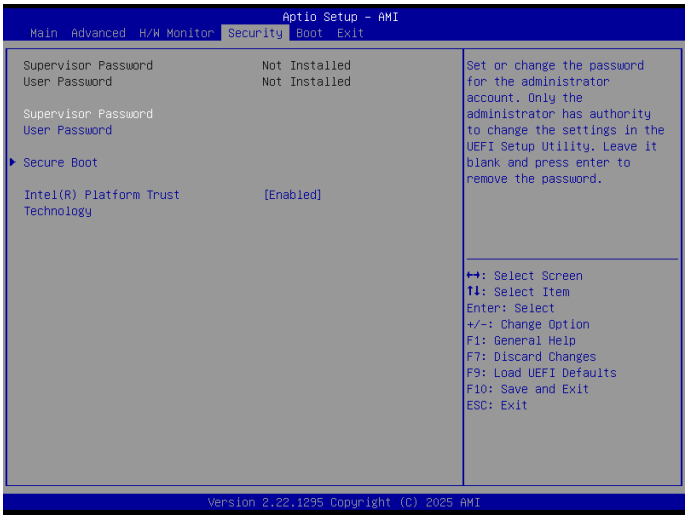
This item allows you to enable or disable case open detection feature. The default is value [Disabled].

Clear Status

This option appears only when the case open has been detected. Use this option to keep or clear the record of previous chassis intrusion status.

3.5 Security Screen

In this section you may set or change the supervisor/user password for the system. You may also clear the user password.



Supervisor Password

Set or change the password for the administrator account. Only the administrator has the authority to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

User Password

Set or change the password for the user account. Users are unable to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

Secure Boot

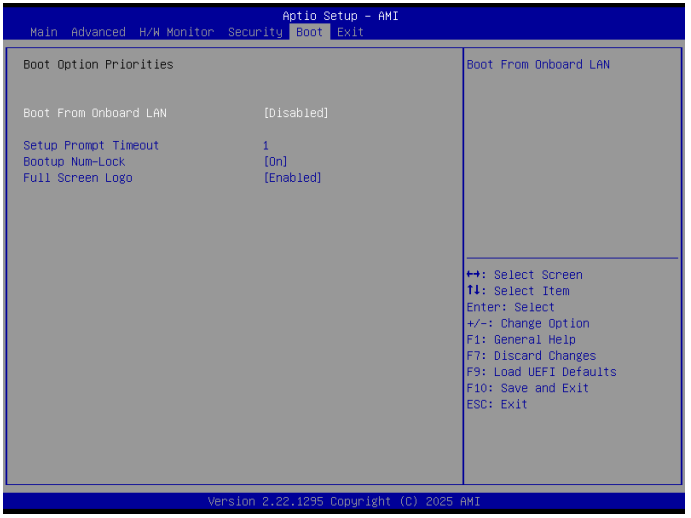
Press [Enter] to configure the Secure Boot Settings. The feature protects the system from unauthorized access and malwares during POST.

Intel(R) Platform Trust Technology

Enable/disable Intel PTT in ME. Disable this option to use discrete TPM Module.

3.6 Boot Screen

This section displays the available devices on your system for you to configure the boot settings and the boot priority.



Boot From Onboard LAN

The item allows the system to be waked up by the onboard LAN.

Configuration options: [Enabled] [Disabled]

Setup Prompt Timeout

The item allows you to configures the number of seconds to wait for the UEFI setup utility.

Configuration options: [1] - [65535]

Bootup Num-Lock

The item allows you to select whether Num Lock should be turned on or off when the system boots up.

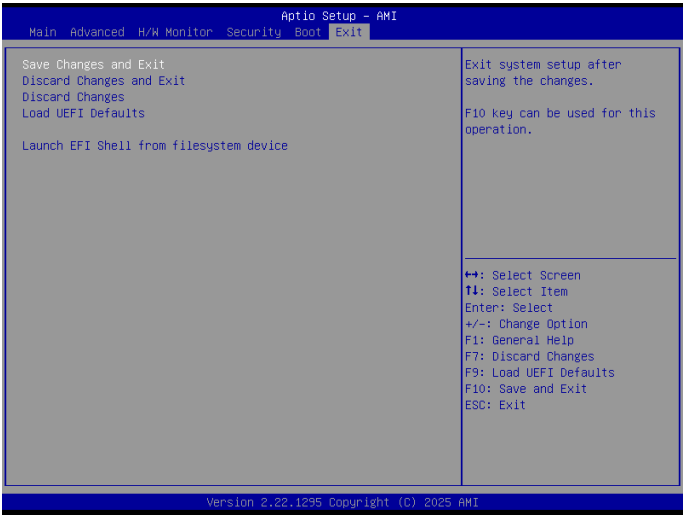
Configuration options: [On] [Off]

Full Screen Logo

[Enabled] Select this item to display the boot logo.

[Disabled] Select this item to show normal POST messages.

3.7 Exit Screen



Save Changes and Exit

When you select this option, the following message “Save configuration changes and exit setup?” will pop out. Select [Yes] to save the changes and exit the UEFI SETUP UTILITY.

Discard Changes and Exit

When you select this option, the following message “Discard changes and exit setup?” will pop out. Select [Yes] to exit the UEFI SETUP UTILITY without saving any changes.

Discard Changes

When you select this option, the following message “Discard changes?” will pop out. Select [Yes] to discard all the changes.

Load UEFI Defaults

The item allows you to load UEFI default values for all options. The F9 key can be used for this operation.

Launch EFI Shell from filesystem device

The item allows you to copy shellx64.efi to the root directory to launch EFI Shell.