ASRock Industrial

IMB-1211-D R2
IMB-1211-L R2
IMB-1210-D R2
IMB-1210-L R2

User Manual

Version 1.1
Updated September 3, 2020
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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"

ASRockInd Website: http://www.asrockind.com

CAUTION:

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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Chapter 1: Introduction

Thank you for purchasing ASRockInd ***IMB-1211-D R2 / IMB-1211-L R2 / IMB-1210-D R2 / IMB-1210-L R2*** 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 and 4 contain the configuration guide to BIOS setup and information of the Support CD.

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 VGA cards and CPU support lists on ASRockInd website as well. ASRockInd website http://www.asrockind.com

If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.
www.asrockind.com/support/index.asp

1.1 Package Contents

ASRockInd ***IMB-1211-D R2 / IMB-1211-L R2 / IMB-1210-D R2 / IMB-1210-L R2***
Motherboard (Mini-ITX Form Factor: 6.7-in x 6.7-in, 17.0 cm x 17.0 cm)
ASRockInd ***IMB-1211-D R2 / IMB-1211-L R2 / IMB-1210-D R2 / IMB-1210-L R2***
Driver CD
ASRockInd ***IMB-1211-D R2 / IMB-1211-L R2 / IMB-1210-D R2 / IMB-1210-L R2***
Jumper setting instruction
1 x I/O Panel Shield

1.2 Specifications

IMB-1211-D R2:

Form Factor	Dimensions	Mini-ITX (6.7-in x 6.7-in)
Processor System	CPU	Socket LGA 1151 for 9th/8th Intel® Core i7/i5/i3/ Celeron (Supports up to 65W) * The Performance of CPUs over 65W will be limited due to power design.
	Chipset	Intel® Q370
Expansion Slot	PCIe	1 x PCIe x16
	Mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0
	mSATA	N/A
	M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD
Memory	Technology	Dual Channel DDR4 2400/2666 MHz
	Max.	64GB* * Intel® Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel® Core i3/Pentium®/Celeron® CPUs support up to 32GB (16GB per DIMM)
	Socket	2 x SO-DIMM
Graphics	Controller	Intel® HD Graphics (By CPU)
	VGA	N/A
	DVI	N/A
	LVDS	N/A
	HDMI	N/A
	DisplayPort	Supports max resolution up to 4096x2304@60Hz
	MultiDisplay	Triple Display
	eDP	Supports max resolution up to 4096x2304@60Hz
Ethernet	Ethernet	10/100/1000 Mbps
	Controller	1 x Intel® I210, 1 x Intel® I219LM

Rear I/O	VGA	N/A
	HDMI	N/A
	DisplayPort	3
	Ethernet	2
	USB	4 x USB support USB3.1
	Audio	2 (Mic-in, Line-out)
	Serial	2 x COM(RS-232/422/485)
	PS2	N/A
Internal Connector	USB	4 x USB 2.0
	LVDS/ inverter	N/A
	eDP	1
	VGA	N/A
	Serial	3 x COM(RS-232)
	SATA	4 x SATA3 (6.0Gb/s)
	GPIO	4 x GPI, 4 x GPO
	SATA PWR Output	N/A
	Speaker Header	1
	TPM	1 x Onboard TPM 2.0 IC
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 Temp	0ºC – 60ºC
	Storage Temp	-40ºC – 85ºC

IMB-1211-L R2:

Form Factor	Dimensions	Mini-ITX (6.7-in x 6.7-in)
Processor System	CPU	Socket LGA 1151 for 9th/8th Intel® Core i7/i5/i3/ Celeron (Supports up to 65W) * The Performance of CPUs over 65W will be limited due to power design.
	Chipset	Intel® Q370
Expansion Slot	PCIe	1 x PCIe x16
	Mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0
	mSATA	N/A
	M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD
Memory	Technology	Dual Channel DDR4 2400/2666 MHz
	Max.	64GB* * Intel® Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel® Core i3/Pentium®/Celeron® CPUs support up to 32GB (16GB per DIMM)
	Socket	2 x SO-DIMM
Graphics	Controller	Intel® HD Graphics (By CPU)
	VGA	Supports max resolution up to 1920x1200@60Hz
	DVI	N/A
	LVDS	Supports max resolution up to 1920x1200@60Hz
	HDMI	N/A
	DisplayPort	Supports max resolution up to 4096x2304@60Hz
	MultiDisplay	Triple Display
	eDP	N/A
Ethernet	Ethernet	10/100/1000 Mbps
	Controller	1 x Intel® I210, 1 x Intel® I219LM

Rear I/O	VGA	1
	HDMI	N/A
	DisplayPort	2
	Ethernet	2
	USB	4 x USB support USB3.1
	Audio	2 (Mic-in, Line-out)
	Serial	2 x COM(RS-232/422/485)
	PS2	N/A
Internal Connector	USB	4 x USB 2.0
	LVDS/ inverter	1
	eDP	N/A
	VGA	N/A
	Serial	3 x COM(RS-232)
	SATA	4 x SATA3 (6.0Gb/s)
	GPIO	4 x GPI, 4 x GPO
	SATA PWR Output	N/A
	Speaker Header	1
	TPM	1 x Onboard TPM 2.0 IC
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 Temp	0ºC – 60ºC
	Storage Temp	-40ºC – 85ºC

IMB-1210-D R2:

Form Factor	Dimensions	Mini-ITX (6.7-in x 6.7-in)
Processor System	CPU	Socket LGA 1151 for 9th/8th Intel® Core i7/i5/i3/ Celeron (Supports up to 65W) * The Performance of CPUs over 65W will be limited due to power design.
	Chipset	Intel® H310
Expansion Slot	PCIe	1 x PCIe x16
	Mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0
	mSATA	N/A
	M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with shared SATA3 for SSD
Memory	Technology	Dual Channel DDR4 2400/2666 MHz
	Max.	64GB* * Intel® Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel® Core i3/Pentium®/Celeron® CPUs support up to 32GB (16GB per DIMM)
	Socket	2 x SO-DIMM
Graphics	Controller	Intel® HD Graphics (By CPU)
	VGA	N/A
	DVI	N/A
	LVDS	N/A
	HDMI	N/A
	DisplayPort	Supports max resolution up to 4096x2304@60Hz
	MultiDisplay	Dual Display
	eDP	Supports max resolution up to 4096x2304@60Hz
Ethernet	Ethernet	10/100/1000 Mbps
	Controller	1 x Intel® I210, 1 x Intel® I219V

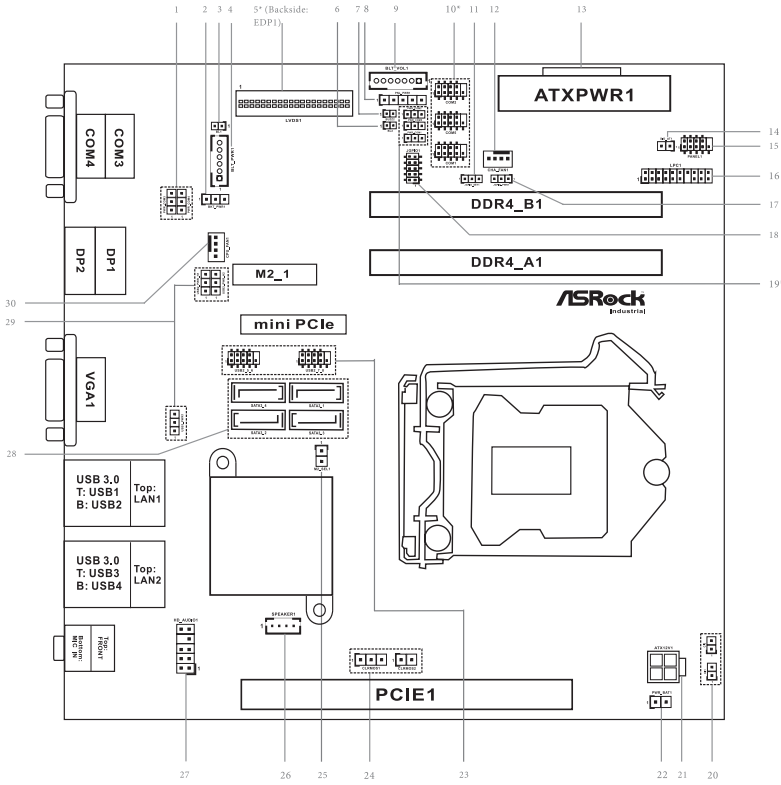
Rear I/O	VGA	N/A
	HDMI	N/A
	DisplayPort	3
	Ethernet	2
	USB	4 x USB support USB3.1
	Audio	2 (Mic-in, Line-out)
	Serial	1 x COM(RS-232/422/485), 1 x COM (RS-232)
	PS2	N/A
Internal Connector	USB	4 x USB 2.0
	LVDS/ inverter	N/A
	eDP	1
	VGA	N/A
	Serial	2 x COM(RS-232)
	SATA	4 x SATA3 (6.0Gb/s), one is shared with M.2 Key M
	GPIO	4 x GPI, 4 x GPO
	SATA PWR Output	N/A
	Speaker Header	1
	TPM	1 x Header
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 Temp	0ºC – 60ºC
	Storage Temp	-40ºC – 85ºC

IMB-1210-L R2:

Form Factor	Dimensions	Mini-ITX (6.7-in x 6.7-in)
Processor System	CPU	Socket LGA 1151 for 9th/8th Intel® Core i7/i5/i3/ Celeron (Supports up to 65W) * The Performance of CPUs over 65W will be limited due to power design.
	Chipset	Intel® H310
Expansion Slot	PCIe	1 x PCIe x16
	Mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0
	mSATA	N/A
	M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with shared SATA3 for SSD
Memory	Technology	Dual Channel DDR4 2400/2666 MHz
	Max.	64GB* * Intel® Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel® Core i3/Pentium®/Celeron® CPUs support up to 32GB (16GB per DIMM)
	Socket	2 x SO-DIMM
Graphics	Controller	Intel® HD Graphics (By CPU)
	VGA	Supports max resolution up to 1920x1200@60Hz
	DVI	N/A
	LVDS	Supports max resolution up to 1920x1200@60Hz
	HDMI	N/A
	DisplayPort	Supports max resolution up to 4096x2304@60Hz
	MultiDisplay	Dual Display
	eDP	N/A
Ethernet	Ethernet	10/100/1000 Mbps
	Controller	1 x Intel® I210, 1 x Intel® I219V

Rear I/O	VGA	1
	HDMI	N/A
	DisplayPort	2
	Ethernet	2
	USB	4 x USB support USB3.1
	Audio	2 (Mic-in, Line-out)
	Serial	1 x COM(RS-232/422/485), 1 x COM (RS-232)
	PS2	N/A
Internal Connector	USB	4 x USB 2.0
	LVDS/ inverter	1
	eDP	N/A
	VGA	N/A
	Serial	2 x COM(RS-232)
	SATA	4 x SATA3 (6.0Gb/s), one is shared with M.2 Key M
	GPIO	4 x GPI, 4 x GPO
	SATA PWR Output	N/A
	Speaker Header	1
	TPM	1 x Header
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 Temp	0ºC – 60ºC
	Storage Temp	-40ºC – 85ºC

1.3 Motherboard Layout



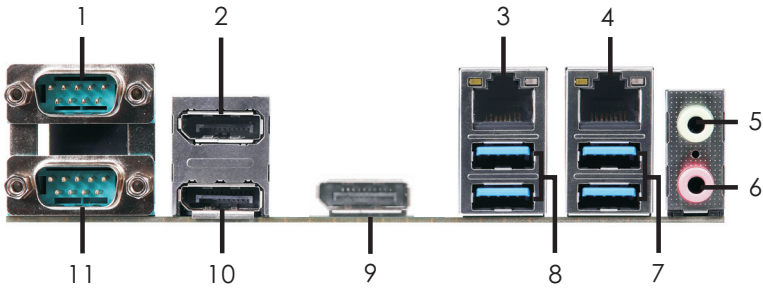
1 : COM Port PWR Setting Jumpers
PWR_COM3 (For COM Port3)
PWR_COM4 (For COM Port4)
2 : Backlight Power Select (LCD_BLT_VCC) (BKT_PWR1)
3 : BL1
4 : Inverter Power Control Wafer (BLT_PWR1)
5* : LVDS Panel Connector (For IMB-1210-L R2 / IMB-1211-L R2 only)
* eDP Connector (For IMB-1210-D R2 / IMB-1211-D R2 only) (on the Backside of PCB)
6 : BL2
7 : Buzzer
8 : Panel Power Select (LCD_VCC) (PNL_PWR1)
9 : Backlight Volume Control (BLT_VOL1)
10* : COM Port Headers (COM1, 2, 5)
(COM5 is for IMB-1211-D R2 / IMB-1211-L R2 only)
(COM1, COM2, COM5 support RS232 only)
11 : Digital Input / Output Default Value Setting (JGPIO_SET1)
12 : 4-Pin Chassis FAN Connector (+12V)
13 : 24-pin ATX Power Input Connector
14 : ATX/AT Mode Jumper (SIO_AT1)
15 : System Panel Header
16 : LPC Header
17 : Digital Input / Output Power Select (JGPIOPWR) (JGPIO_PWR1)
18 : Digital Input/Output Pin Header (JGPIO1)
19* : COM Port PWR Setting Jumpers
(PWR_COM5 is for IMB-1211-D R2 / IMB-1211-L R2 only)
PWR_COM1 (For COM Port1)
PWR_COM2 (For COM Port2)
PWR_COM5 (For COM Port5)
20 : Chassis Intrusion Headers (CI1, CI2)
21 : 4-pin ATX Power Input/Output Connector
22 : PWR_BAT1
23 : USB2.0 Headers (USB2_5_6, USB2_7_8)
24 : Clear CMOS Headers (CLRMOS1, CLRMOS2)
25 : M.2 Select (M2_SEL1) (For IMB-1210-D R2 / IMB-1210-L R2 only)
26 : 3W Audio AMP Output Wafer
27 : Front Panel Audio Header
28 : SATA3 Connectors (SATA3_1~4)
29 : USB Power Setting Jumpers
(USB2_PWR_H1 (For USB2_5_6))
(USB2_PWR_H2 (For USB2_7_8))
(USB3_PWR1 (For USB3_1_2))
30 : 4-Pin CPU FAN Connector (+12V) (CPU_FAN1)

* IMB-1211-D R2 / IMB-1210-D R2 supports DisplayPort on the rear I/O panel.
IMB-1211-L R2 / IMB-1210-L R2 supports VGA port on the rear I/O panel.

Back Side :
M.2 Socket (Key-M) (M2_2) :
* M2_2 supports either PCIe or SATA mode for IMB-1211-D R2. M2_2 supports SATA mode only for IMB-1210-L R2.
* M2_2 and SATA3_1 share lanes. If either one of them is in use, the other one will be disabled.

1.4 I/O Panel

IMB-1211-D R2:



1	COM Port (COM3) (RS232/422/485)*	7	USB 3.0 Ports (USB3_3_4) (Only +5VSB)
2	DisplayPort (DP1)	8	USB 3.0 Ports (USB3_1_2)
3	LAN RJ-45 Port**	9	DisplayPort (DP3)
4	LAN RJ-45 Port**	10	DisplayPort (DP2)
5	Line out (Lime)	11	COM Port (COM4) (RS232/422/485)*
6	Microphone (Pink)		

* This motherboard supports RS232/422/485 on COM3, 4 ports. Please refer to below table for the pin definition. In addition, COM3, 4 ports (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 41 for details.

COM3, 4 Port Pin Definition

PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V / +12V	N/A	N/A

** There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

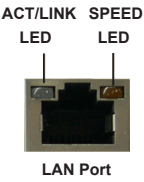
LAN Port LED Indications

Activity/Link LED

Status	Description
Off	No Link
Blinking	Data Activity
On	Link

SPEED LED

Status	Description
Off	10Mbps connection
Orange	100Mbps connection
Green	1Gbps connection



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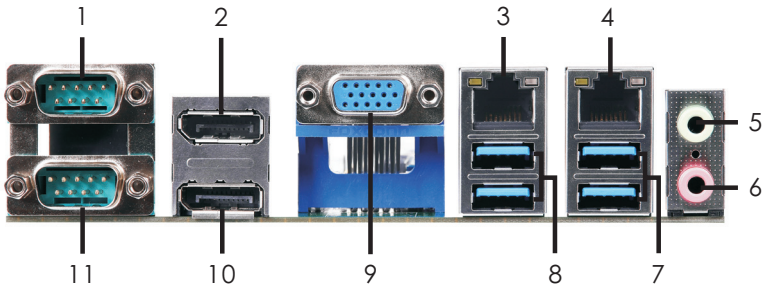


1	COM Port (COM3) (RS232/422/485)*	7	USB 3.0 Ports (USB3_3_4) (Only +5VSB)
2	DisplayPort (DP1)	8	USB 3.0 Ports (USB3_1_2)
3	LAN RJ-45 Port**	9	D-Sub Port (VGA1)
4	LAN RJ-45 Port**	10	DisplayPort (DP2)
5	Line out (Lime)	11	COM Port (COM4) (RS232/422/485)*
6	Microphone (Pink)		

* This motherboard supports RS232/422/485 on COM3, 4 ports. Please refer to below table for the pin definition. In addition, COM3, 4 ports (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 41 for details.

COM3, 4 Port Pin Definition

PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V / +12V	N/A	N/A

** There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

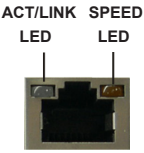
LAN Port LED Indications

Activity/Link LED

Status	Description
Off	No Link
Blinking	Data Activity
On	Link

SPEED LED

Status	Description
Off	10Mbps connection
Orange	100Mbps connection
Green	1Gbps connection



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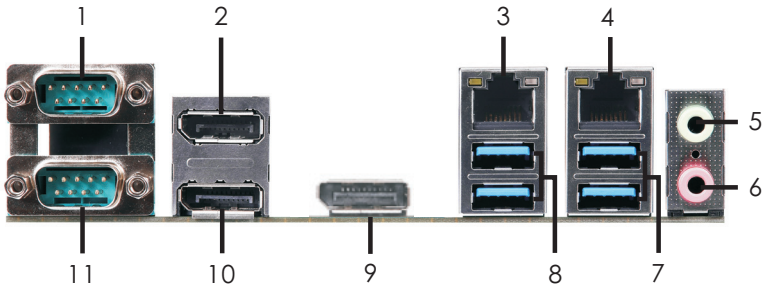


1	COM Port (COM3) (RS232/422/485)*	7	USB 3.0 Ports (USB3_3_4) (Only +5VSB)
2	DisplayPort (DP1)	8	USB 3.0 Ports (USB3_1_2)
3	LAN RJ-45 Port**	9	DisplayPort (DP3)
4	LAN RJ-45 Port**	10	DisplayPort (DP2)
5	Line out (Lime)	11	COM Port (COM4) (RS232)*
6	Microphone (Pink)		

* This motherboard supports RS232/422/485 on COM3 port. Please refer to below table for the pin definition. In addition, COM3 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 41 for details.

COM3 Port Pin Definition

PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V / +12V	N/A	N/A

** There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

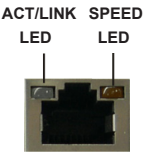
LAN Port LED Indications

Activity/Link LED

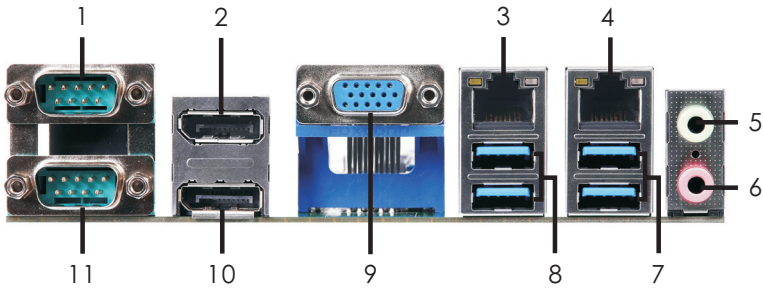
Status	Description
Off	No Link
Blinking	Data Activity
On	Link

SPEED LED

Status	Description
Off	10Mbps connection
Orange	100Mbps connection
Green	1Gbps connection



IMB-1210-L R2:



1	COM Port (COM3) (RS232/422/485)*	7	USB 3.0 Ports (USB3_3_4) (Only +5VSB)
2	DisplayPort (DP1)	8	USB 3.0 Ports (USB3_1_2)
3	LAN RJ-45 Port**	9	D-Sub Port (VGA1)
4	LAN RJ-45 Port**	10	DisplayPort (DP2)
5	Line out (Lime)	11	COM Port (COM4) (RS232)*
6	Microphone (Pink)		

* This motherboard supports RS232/422/485 on COM3 port. Please refer to below table for the pin definition. In addition, COM3 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 41 for details.

COM3 Port Pin Definition

PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V / +12V	N/A	N/A

** There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

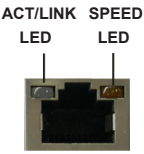
LAN Port LED Indications

Activity/Link LED

Status	Description
Off	No Link
Blinking	Data Activity
On	Link

SPEED LED

Status	Description
Off	10Mbps connection
Orange	100Mbps connection
Green	1Gbps connection



Chapter 2: Installation

This is a Mini-ITX form factor (6.7” x 6.7”, 17.0 x 17.0 cm) 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.

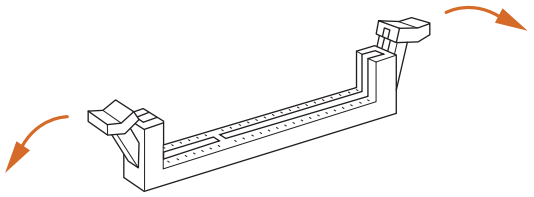
Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply.
Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

2.3 Installation of Memory Modules (SO-DIMM)

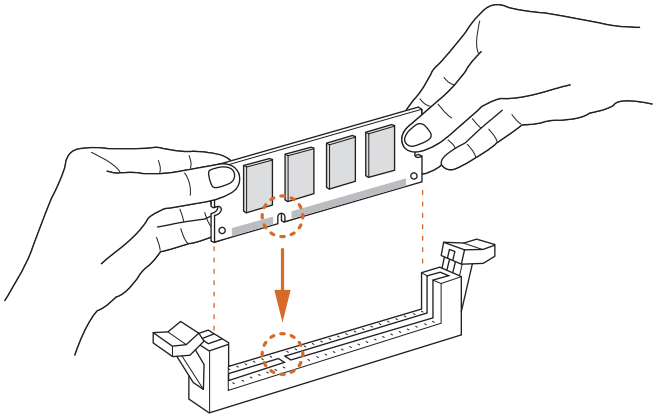
This motherboard provides two 260-pin DDR4 (Double Data Rate 4) SO-DIMM slots.

1. The SO-DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the SO-DIMM if you force the SO-DIMM into the slot at incorrect orientation.
2. Please do not intermix different voltage SO-DIMMs on this motherboard.

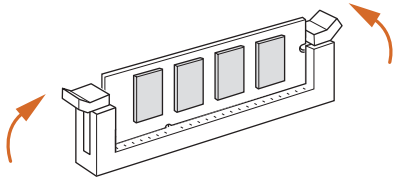
1



2



3



2.4 Expansion Slots

There is 1 mini-PCIe slot, 2 M.2 sockets and 1 PCI Express slot on this motherboard.

mini-PCIe slot:

MINI_PCIE1 (mini-PCIe slot; half/full size) is used for PCI Express mini cards.

M.2 sockets:

1 x M.2 (M2_2) (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless.

1x M.2 (M2_1) (Key M, 2242/2260/2280) with shared SATA3 for SSD

PCIE slot: PCIE1 (PCIE x16 slot) is used for PCI Express x16 lane width cards.

Installing an expansion card

Step 1. Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.

Step 2. Remove the system unit cover (if your motherboard is already installed in a chassis).

Step 3. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.

Step 4. Align the card connector with the slot and press firmly until the card is completely seated on the slot.

Step 5. Fasten the card to the chassis with screws.

Step 6. Replace the system cover.

M.2 Key-E Socket (M2_1):

Pin	Signal	Signal	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+		
33	GND	CNV_BGI_DT	32
35	PETp	CNV_RGI_RSP	34
37	PETn	CNV_BRI_DT	36
39	GND	NA	38
41	PERp	NA	40
43	PERn	NA	42
45	GND	NA	44
47	PEFCLKp	NA	46
49	PEFCLKn	NA	48
51	GND	SUSCLK	50
53	CLKREQ#	PERST0#	52
55	WAKE#	W_DISABLE1#	54
57	GND	W_DISABLE2#	56
59	CNV_WT_D1-	SMB_DATA	58
61	CNV_WT_D1+	SMB_CLK	60
63	GND	NA	62
65	CNV_WT_D0-	CLKIN_XTAL_LCP	64
67	CNV_WT_D0+	NA	66
69	GND	NA	68
71	CNV_WT_CLK-	NA	70
73	CNV_WT_CLK+	+3.3V	72
75	GND	+3.3V	74

M.2 Key-M Socket (M2_2):

* IMB-1211-D R2: Switch between SATA and PCIe mode.
  IMB-1210-L R2: SATA mode only.
* M2_2 and SATA3_1 share lanes. If either one of them is in use, the other one will be disabled.

SATA Mode:

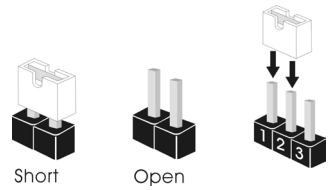
Pin	Signal	Signal	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	NA	NA	6
7	NA	NA	8
9	GND	SATA_LED	10
11	NA	+3.3V	12
13	NA	+3.3V	14
15	GND	+3.3V	16
17	NA	+3.3V	18
19	NA	NA	20
21	GND	NA	22
23	NA	NA	24
25	NA	NA	26
27	GND	NA	28
29	NA	NA	30
31	NA	NA	32
33	GND	NA	34
35	NA	NA	36
37	NA	DEVSLP	38
39	GND	SMB_CLK	40
41	SATA-B+	SMB_DATA	42
43	SATA-B-	NA	44
45	GND	NA	46
47	SATA-A-	NA	48
49	SATA-A+	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	WAKE#	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		

PCIe Mode:

Pin	Signal	Signal	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	NA	34
35	PETn1	NA	36
37	PETp1	DEVSLP	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	WAKE#	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.



Jumper	Setting	Description
Clear CMOS Jumpers (3-pin CLRMOS1) (see p.14, No. 24)	1_2 Default 2_3 Clear CMOS	CLRMOS1 : 1-2 : Normal 2-3 : Clear CMOS

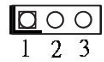
Note: CLRMOS1 allows you to clear the data in CMOS. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRMOS1 for 5 seconds. However, please 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 password, date, time, user default profile and MAC address will be cleared only if the CMOS battery is removed.

(2-pin CLRMOS2) (see p.14, No. 24)	1	CLRMOS2 : Open : Normal Short : Auto Clear CMOS (Power Off)
Digital Input / Output Power Select (JGPIOPWR) (3-pin JGPIO_PWR1) (see p.14, No. 17)	3 2 1	1-2 : +12V 2-3 : +5V
Digital Input / Output Default Value Setting (3-pin JGPIO_SET1) (see p.14, No. 11)	1 2 3	1-2 : Pull-High 2-3 : Pull-Low

Backlight Power Select (LCD_BLT_VCC)

(3-pin BKT_PWR1)

(see p.14, No. 2)



1-2 : LCD_BLT_VCC : +5V

2-3 : LCD_BLT_VCC : +12V

COM Port PWR Setting Jumpers

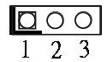
(3-pin

PWR_COM1 (For COM Port1),

PWR_COM2 (For COM Port2),

PWR_COM5 (For COM Port5) (PWR_COM5 is for IMB-1211-D R2 / IMB-1211-L R2 only))

(see p.14, No. 19)



1-2 : +5V

2-3 : +12V

BL1, BL2

(2-pin BL1)

(see p.14 No. 3)

Open : Protect LCD_BLT_VCC

Short : No Protect LCD_BLT_VCC

(2-pin BL2)

(see p.14 No. 6)

Open : Protect LCD_VCC

Short : No Protect LCD_VCC

COM Port PWR Setting Jumpers

(3-pin

PWR_COM3 (For COM Port3),

PWR_COM4 (For COM Port4),

(see p.14, No. 1)

1-2 : +5V

2-3 : +12V

Panel Power Select (LCD_VCC)

(5-pin PNL_PWR1)

(see p.14, No. 8)

1-2 : LCD_VCC : +3V

2-3 : LCD_VCC : +5V

4-5 : LCD_VCC : +12V

ATX/AT Mode Jumper

(2-pin SIO_AT1)

(see p.14, No. 14)

Open : ATX Mode

Close : AT Mode

PWR_BAT1

(2-pin PWR_BAT1)

(see p.14, No. 22)

Open : Normal

Close : Charge Battery

USB Power Setting Jumpers

(3-pin USB2_PWR_H1 (For USB2_5_6),

USB2_PWR_H2 (For USB2_7_8),

USB3_PWR1 (For USB3_1_2))

(see p.14, No. 29)

1-2 : +5V

2-3 : +5VSB

M.2 Select (For IMB-1210-D R2 / IMB-1210-L R2 only)

(2-pin M2_SEL1)

(see p.14, No. 25)

Open : For SATA3_1

Close : For M.2

* M2_2 and SATA3_1 share lanes. If either one of them is in use, the other one will be disabled.

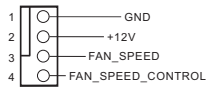
2.6 Onboard Headers and Connectors

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 of the motherboard!

CPU Fan Connector

(4-pin CPU_FAN1)

(see p.14 No. 30)



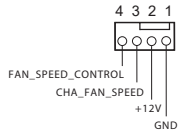
Please connect the CPU fan cable to the connector and match the black wire to the ground pin.

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.

Chassis Fan Connector

(4-pin CHA_FAN1)

(see p.14 No. 12)



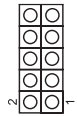
Please connect the chassis fan cable to the connector and match the black wire to the ground pin.

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.

Digital Input / Output Pin Header

(10-pin JGPIO1)

(see p.14, No. 18)

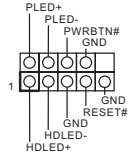


PIN	Signal Name	PIN	Signal Name
10	GND	9	JGPIO_PWR
8	SIO_GP23	7	SIO_GP27
6	SIO_GP22	5	SIO_GP26
4	SIO_GP21	3	SIO_GP25
2	SIO_GP20	1	SIO_GP24

System Panel Header

(9-pin PANEL1)

(see p.14, No. 15)



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/S3 sleep state. The LED is off when the system is in 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.

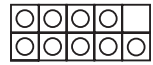
The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assign-ments are matched correctly.

COM1, 2, 5 Headers

(10-pin COM1, 2, 5: see p.14, No. 10)

(COM5 is for IMB-1211-D R2 / IMB-1211-L R2 only)

(COM1, COM2, COM5 support RS232 only)



PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	RRXD	4	DDTR#	6	DDSR#	8	CCTS#	10	N/A
1	DDCD#	3	TTXD	5	GND	7	RRTS#	9	PWR

SATA3 Connectors

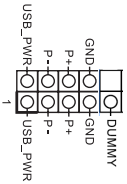
(SATA3_1~4: see p.14, No. 28)

These four 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.

* M2_2 and SATA3_1 share lanes. If either one of them is in use, the other one will be disabled.

USB 2.0 Headers

(9-pin USB2_5_6, USB2_7_8: see p.14, No. 23)

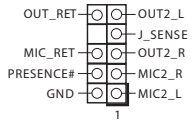


There are two headers on this motherboard. Each USB 2.0 header can support two ports.

Front Panel Audio Header

(9-pin HD_AUDIO1)

(see p.14 No. 27)



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

1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
   A. Connect Mic_IN (MIC) to MIC2_L.
   B. Connect Audio_R (RIN) to OUT2_R and Audio_L (LIN) to OUT2_L.
   C. Connect Ground (GND) to Ground (GND).
   D. MIC_RET and OUT_RET are for HD audio panel only. You don't need to connect them for AC'97 audio panel.
   E. To activate the front mic.
      Go to the "FrontMic" Tab in the Realtek Control panel. Adjust "Recording Volume".

3W Audio AMP Output Wafer

(4-pin SPEAKER1)

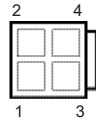
(see p.14 No. 26)

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	OUTLN	2	OUTLP	3	OUTRP	4	OUTRN

ATX Power Input/Output Connector

(4-pin ATX12V1)

(see p.14 No. 21)

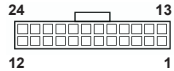


Please connect a DC power supply to this connector.
1-2 : GND
3-4 : DC Input

ATX Power Input Connector

(24-pin ATXPWR1)

(see p.14 No. 13)

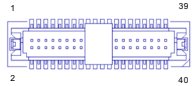


This motherboard provides a 24-pin ATX power connector. To use a 20-pin ATX power supply, please plug it along Pin 1 and Pin 13.

* LVDS Connector (For IMB-1210-L R2 / IMB-1211-L R2 only)

(40-pin LVDS1)

(see p.14 No. 5)



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

* PD (Panel Detection): Connect this pin to LVDS Panel's Ground pin to detect Panel detection.

eDP Connector (For IMB-1210-D R2 / IMB-1211-D R2 only)

(on the Backside of PCB)

(40-pin EDP1)

PIN	Signal Name
1	NA
2	GND
3	eDP_TX#3_CON
4	eDP_TX3_CON
5	GND
6	eDP_TX#2_CON
7	eDP_TX2_CON
8	GND
9	eDP_TX#1_CON
10	eDP_TX1_CON
11	GND
12	eDP_TX#0_CON
13	eDP_TX0_CON
14	GND
15	eDP_AUX#_CON
16	eDP_AUX#_CON
17	GND
18	LCD_VCC
19	LCD_VCC
20	LCD_VCC
21	LCD_VCC
22	NA
23	GND
24	GND
25	GND
26	GND
27	eDP_HPD_CON
28	GND
29	GND
30	GND
31	GND
32	CON_LBKLT_EN
33	CON_LBKLT_CTL
34	NA
35	NA
36	LCD_BLT_VCC
37	LCD_BLT_VCC
38	LCD_BLT_VCC
39	LCD_BLT_VCC
40	NA

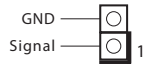
Buzzer

(2-pin BUZZ2)

(see p.14 No. 7)

Chassis Intrusion Headers

(2-pin CI1, CI2: see p.14, No. 20)



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.

CI1 :

Close : Active Case Open

Open : Normal

CI2 :

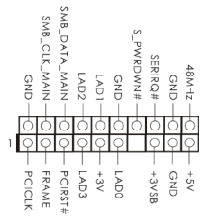
Close : Normal

Open : Active Case Open

LPC Header

(19-pin LPC1)

(see p.14, No. 16)



This connector supports a Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

Inverter Power Control Wafer

(6-pin BLT_PWR1)

(see p.14 No. 4)

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

Backlight Volume Control

(7-pin BLT_VOL1)

(see p.14 No. 9)

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

Chapter 3: UEFI SETUP UTILITY

3.1 Introduction

This section explains how to use the UEFI SETUP UTILITY to configure your system. The UEFI chip on the motherboard stores the UEFI SETUP UTILITY. You may run the UEFI SETUP UTILITY when you start up the computer. Please press <F2> or <Del> during the Power-On-Self-Test (POST) to enter the UEFI SETUP UTILITY, otherwise, 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.

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.

3.1.1 UEFI Menu Bar

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

Main	To set up the system time/date information
Advanced	To set up the advanced UEFI features
H/W Monitor	To display current hardware status
Security	To set up the security features
Boot	To set up the default system device to locate and load the Operating System
Exit	To exit the current screen or the UEFI SETUP UTILITY

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

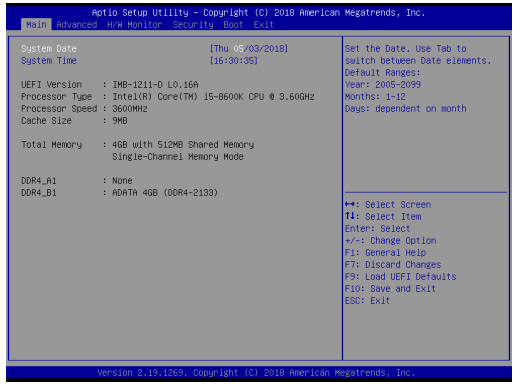
3.1.2 Navigation Keys

Please check the following table for the function description of each navigation key.

Navigation Key(s)	Function Description
← / →	Moves cursor left or right to select Screens
↑ / ↓	Moves cursor up or down to select items
+ / -	To change option for the selected items
<Enter>	To bring up the selected screen
<F1>	To display the General Help Screen
<F7>	Discard changes
<F9>	To load optimal default values for all the settings
<F10>	To save changes and exit the UEFI SETUP UTILITY
<F12>	Print screen
<ESC>	To jump to the Exit Screen or exit the current screen

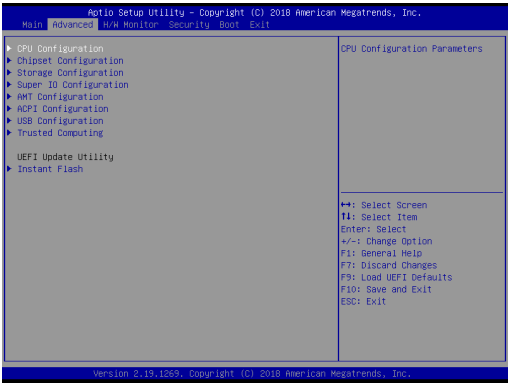
3.2 Main Screen

When you enter the UEFI SETUP UTILITY, the Main screen will appear and display the system overview.



3.3 Advanced Screen

In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, Storage Configuration, Super IO Configuration, AMT Configuration(Q370 only), ACPI Configuration, USB Configuration and Trusted Computing.

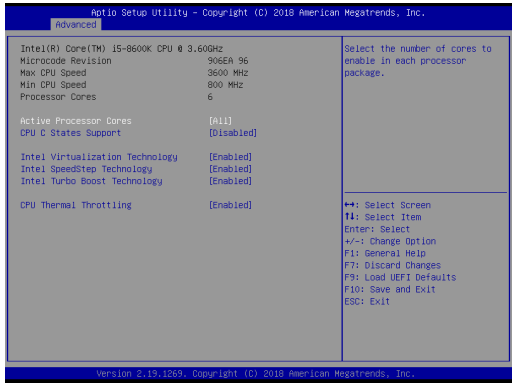


Setting wrong values in this section may cause the system to malfunction.

Instant Flash

Instant Flash 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 MS-DOS or Windows®. Just launch this tool and save the new UEFI file to your USB flash drive, floppy disk or hard drive, then you can update your UEFI only in 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 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



Intel Hyper Threading Technology

Intel Hyper Threading Technology allows multiple threads to run on each core, so that the overall performance on threaded software is improved.

Active Processor Cores

Select the number of cores to enable in each processor package.

CPU C States Support

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

Intel Virtualization Technology

When this option is set to [Enabled], a VMM (Virtual Machine Architecture) can utilize the additional hardware capabilities provided by Vanderpool Technology. This option will be hidden if the installed CPU does not support Intel Virtualization Technology.

Intel SpeedStep Technology

Intel SpeedStep technology is Intel's new power saving technology. Processors can switch between multiple frequencies and voltage points to enable power saving. The default value is [Enabled]. Configuration options: [Enabled] and [Disabled]. If you install Windows® OS 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.

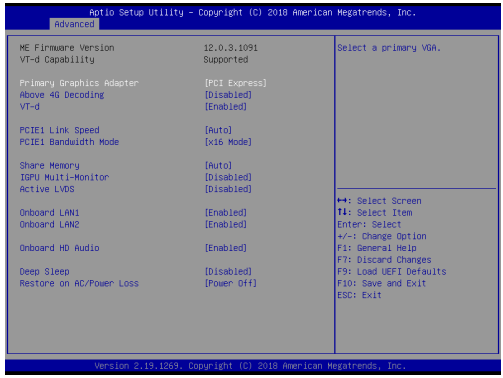
Intel Turbo Boost Technology

Use this item to enable or disable Intel Turbo Boost Mode Technology. Turbo Boost Mode allows processor cores to run faster than marked frequency in specific conditions. The default value is [Enabled].

CPU Thermal Throttling

You may select [Enabled] to enable CPU internal thermal control mechanism to keep the CPU from overheating.

3.3.2 Chipset Configuration



Primary Graphics Adapter

This allows you to select [Onboard] or [PCI Express] as the boot graphic adapter priority. The default value is [PCI Express].

Above 4G Decoding

Enable or disable 64bit capable Devices to be decoded in Above 4G Address Space (only if the system supports 64 bit PCI decoding).

VT-d

Use this to enable or disable Intel® VT-d technology (Intel® Virtualization Technology for Directed I/O). The default value of this feature is [Disabled].

PCIE1 Link Speed

Select the link speed for PCIE1.

PCIE1 Bandwidth Mode (Q370 only)

Select the bandwidth mode for PCIE1.

Share Memory

Configure the size of memory that is allocated to the integrated graphics processor when the system boots up.

IGPU Multi-Moniter

Select disable to disable the integrated graphics when an external graphics card is installed. Select enable to keep the integrated graphics enabled at all times.

Active LVDS (IMB-1210-L R2 and IMB-1211-L R2 only)

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

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

Panel Type Selection (IMB-1210-L R2 and IMB-1211-L R2 only)

Use this to select panel type. This item appears when you enable Active LVDS.

The default values of Active LVDS and Panel Type Selection will be changed only when the users manually adjust them. They will keep at the default values no matter you clear CMOS, use Instant Flash or press <F9>.

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.

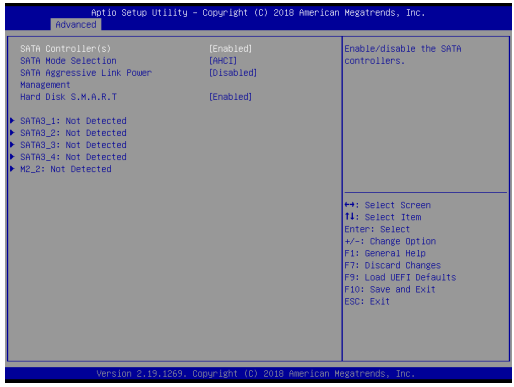
Onboard HD Audio

Select [Enabled] or [Disabled] for the onboard HD Audio feature.

Deep Sleep

Mobile platforms support Deep S4/S5 in DC only and desktop platforms support Deep S4/S5 in AC only. The default value is [Disabled].

3.3.3 Storage Configuration



SATA Controller(s)

Use this item to enable or disable the SATA Controller feature.

SATA Mode Selection

Use this to select SATA mode. The default value is [AHCI Mode].

AHCI (Advanced Host Controller Interface) supports NCQ and other new features that will improve SATA disk performance.

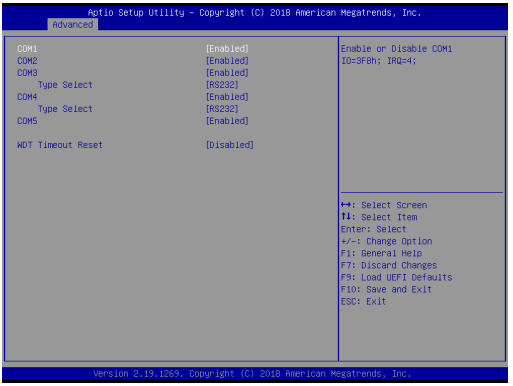
SATA Aggressive Link Power Management

Use this item to configure SATA Aggressive Link Power Management.

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

Use this item to enable or disable the S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) feature. Configuration options: [Disabled] and [Enabled].

3.3.4 Super IO Configuration



COM1 Configuration

Use this to set parameters of COM1.

COM2 Configuration

Use this to set parameters of COM2.

COM3 Configuration

Use this to set parameters of COM3. Select COM3 port type: [RS232], [RS422] or [RS485].

COM4 Configuration

Use this to set parameters of COM4. Select COM4 port type: [RS232], [RS422] or [RS485]. (Q370 only)

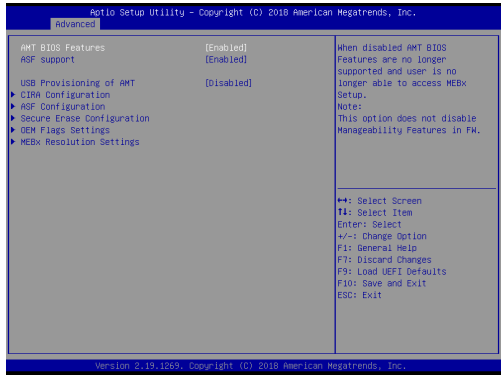
COM5 Configuration (Q370 only)

Use this to set parameters of COM5.

WDT Timeout Reset

Use this to set the Watch Dog Timer.

3.3.5 AMT Technology (Q370 only)



AMT BIOS Features

Use this to enable or disable Intel(R) Active Management Technology BIOS Extension. The default is [Enabled].

ASF support

Use this to enable or disable Alert Specification Format. The default is [Enabled].

USB Provisioning of AMT

Use this to enable or disable AMT USB Provisioning. The default is [Disabled].

Secure Erase mode

Change Secure Erase module behavior: Simulated: Performs SE flow without erasing SSD. Real: Erase SSD.

Force Secure Erase

Use this to enable or disable Force Secure Erase on next boot. The default is [Disabled].

MEBx hotkey Pressed

Use this to enable or disable MEBx hotkey press. The default is [Disabled].

MEBx Selection Screen

Use this to enable or disable MEBx Selection Screen. The default is [Disabled].

Hide Un-configure ME Confirmation Prompt

Hide Un-Configure ME without password confirmation prompt. The default is [Disabled].

MEBx OEM Debug Menu Enable

Use this to enable or disable MEBx OEM Debug Menu. The default is [Disabled].

Un-Configure ME

Un-Configure ME without password. The default is [Disabled].

WatchDog

Use this to enable or disable AMT WatchDog Timer. The default is [Disabled].

Activate Remote Assistance Process

Trigger CIRA boot. The default is [Disabled].

PET Progress

User can enable or disable PET Events progress to receive PET events or not. The default is [Enabled].

ASF Sensors Table

Use this to enable or disable ASF Sensor Table. The default is [Disabled].

Non-UI Mode Resolution

Use this to set resolution for non-UI text mode.

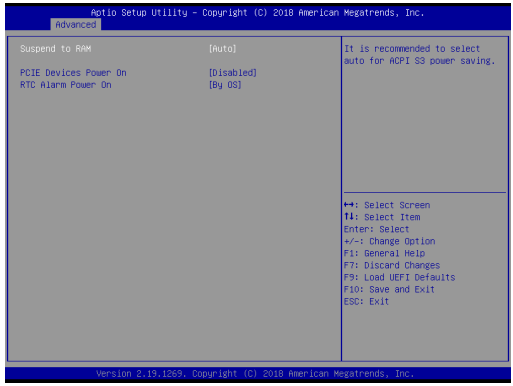
UI Mode Resolution

Use this to set resolution for UI text mode.

Graphics Mode Resolution

Use this to set resolution for graphics mode.

3.3.6 ACPI Configuration



Suspend to RAM

Use this item to select whether to auto-detect or disable the Suspend-to-RAM feature. Select [Auto] will enable this feature if the OS supports it.

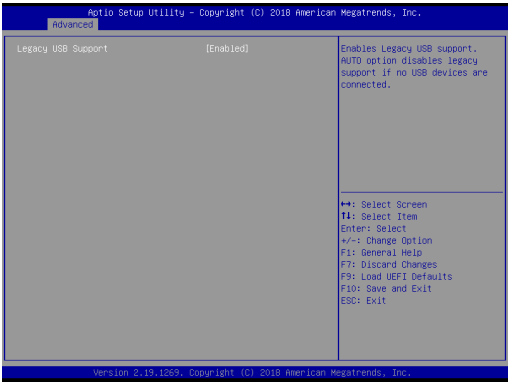
PCIE Devices Power On

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

RTC Alarm Power On

Use this item to enable or disable RTC (Real Time Clock) to power on the system.

3.3.7 USB Configuration



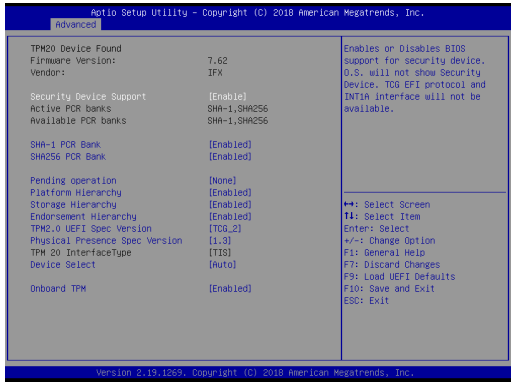
Legacy USB Support

Use this option to select legacy support for USB devices. There are two configuration options: [Enabled] and [UEFI Setup Only]. The default value is [Enabled]. Please refer to below descriptions for the details of these four options:

[Enabled] - Enables support for legacy USB.

[UEFI Setup Only] - USB devices are allowed to use only under UEFI setup and Windows / Linux OS.

3.3.8 Trusted Computing



Security Device Support

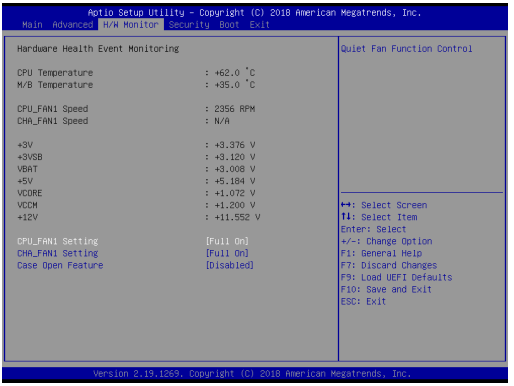
Enable or disable BIOS support for security device.

Onboard TPM (Q370 only)

Use this to enable or disable onboard TPM. The default is [Enabled].

3.4 Hardware Health Event Monitoring Screen

In this section, it 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.



CPU_FAN1 Setting

This allows you to set CPU fan 1's speed. Configuration options: [Full On] and [Automatic Mode]. The default value is [Full On].

CHA_FAN1 Setting

This allows you to set chassis fan 1's speed. Configuration options: [Full On] and [Automatic Mode]. The default value is [Full On].

Case Open Feature

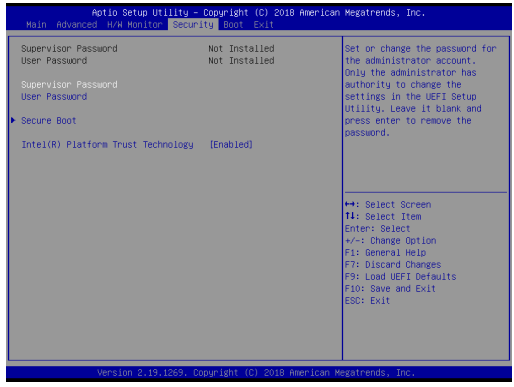
This allows you to enable or disable case open detection feature. The default is value [Disabled].

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, change or clear the supervisor/user password for the system.



Supervisor Password

Set or change the password for the administrator account. Only the administrator has 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

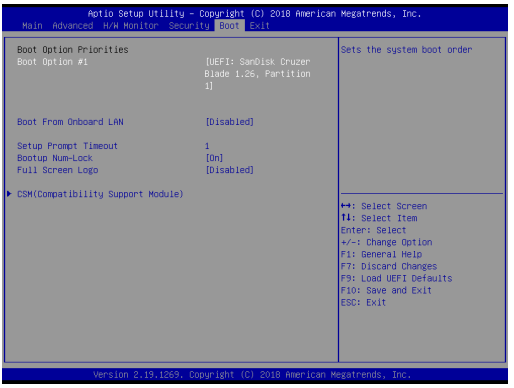
Use this item to enable or disable support for Secure Boot.

Intel(R) Platform Trust Technology (H310 only)

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

3.6 Boot Screen

In this section, it will display the available devices on your system for you to configure the boot settings and the boot priority.



Boot From Onboard LAN

Use this item to enable or disable the Boot From Onboard LAN feature.

Setup Prompt Timeout

This shows the number of seconds to wait for setup activation key. 65535(0XFFFF) means indefinite waiting.

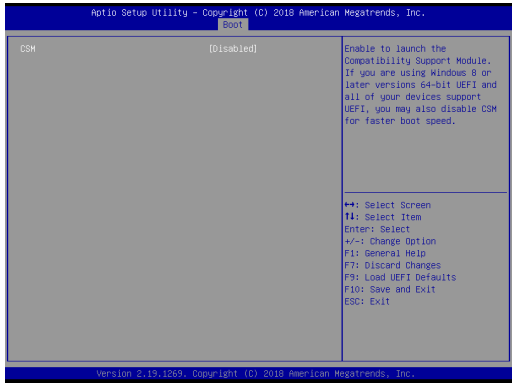
Bootup Num-Lock

If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up.

Full Screen Logo

Use this item to enable or disable OEM Logo. The default value is [Disabled].

CSM (Compatibility Support Module)



CSM

Use this to enable or disable Compatibility Support Module. The default value is [Disabled].

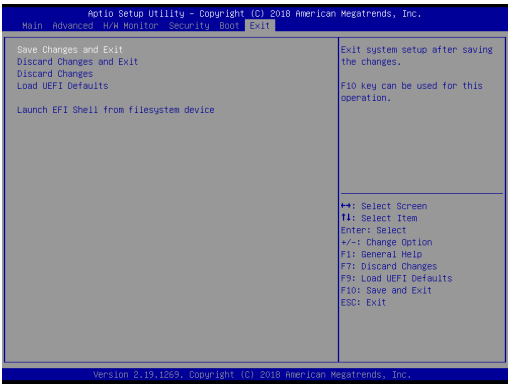
Launch PXE OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

Launch Storage OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

3.7 Exit Screen



Save Changes and Exit

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

Discard Changes and Exit

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

Discard Changes

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

Load UEFI Defaults

Load UEFI default values for all the setup questions. F9 key can be used for this operation.

Launch EFI Shell from filesystem device

Attempts to Launch EFI Shell application (Shell64.efi) from one of the available filesystem devices.

Chapter 4: Software Support

4.1 Install Operating System

This motherboard supports various Microsoft® Windows® operating systems: 10 64-bit. Because motherboard settings and hardware options vary, use the setup procedures in this chapter for general reference only. Refer your OS documentation for more information.

4.2 Support CD Information

The Support CD that came with the motherboard contains necessary drivers and useful utilities that enhance the motherboard's features.

4.2.1 Running The Support CD

To begin using the support CD, insert the CD into your CD-ROM drive. The CD automatically displays the Main Menu if "AUTORUN" is enabled in your computer. If the Main Menu did not appear automatically, locate and double click on the file "ASRSETUP.EXE" from the BIN folder in the Support CD to display the menus.

4.2.2 Drivers Menu

The Drivers Menu shows the available device's drivers if the system detects installed devices. Please install the necessary drivers to activate the devices.

4.2.3 Utilities Menu

The Utilities Menu shows the application software that the motherboard supports. Click on a specific item then follow the installation wizard to install it.

4.2.4 Contact Information

If you need to contact ASRockInd or want to know more about ASRockInd, you're welcome to visit ASRockInd's website at http://www.asrockind.com; or you may contact your dealer for further information.