

# H310I-IM-A R2.0

Mini-ITX, LGA1151 socket for the 9<sup>th</sup>/8<sup>th</sup> Gen CPU, H310 chipset, 2\*SO-DIMM.  
1\*PCIe x16, 2\*DP, HDMI, LVDS, 2\*M.2 slot, 1\*Mini-PCIe

## Features

- Two 260-pin SO-DIMM up to 32GB DDR4 2666/2400/2133 MHz SDRAM.
- Supports 3 displays configuration by multiple interface: 2\*DP/ HDMI/ LVDS
- 7-year longevity supply
- Wide temperature Range: 0~60°C



## Specifications

<b>Processor System</b>	CPU	LGA1151 socket for the 9th/8th Generation Intel® Core™ i7/ i5/ i3/ Pentium® / Celeron® processors supports 14nm CPU, Max. 65W TDP
	CHIPSET	Intel® H310 chipset
<b>Memory</b>	Technology	DDR4 2666/2400/2133 MHz
	Max.	32GB
	Socket	2 x SO-DIMM
<b>Display</b>	HDMI	1, Supports HDMI 1.4b up to 4096 X 2160 @ 24 Hz
	Display Port	2, Supports DP 1.2a up to 4096 x 2160 @ 60 Hz
	LVDS	1, Supports 48 bits up to 1.4b 1920 x1200 @ 60Hz
<b>Expansion Slot</b>	PCIe	1 x PCIe 3.0/2.0 x16 slot
	Mini PCIe	1 x full/half mini-PCIe with SATA
	M.2	1 x M.2 Socket 1 with E key, type 2230 for WIFI/BT device 1 x M.2 Socket 3 with M key, type 2242/2260/2280(PCIe & SATA mode)
<b>Ethernet</b>	Speed	10/100/1000Mbps
	Controller	1 x Intel® i219V, 1 x Intel® I211at
	Connector	2 x RJ-45
<b>Audio</b>	Codec	Realtek ALC887-VD2 High Definition Audio
	Connector	Line-Out, Line-In
<b>Storage</b>	SATA port	4 x SATA Gen 3.0, up to 6Gb/s
	M.2	1 x M.2 Socket 3 with M key, type 2242/2260/2280(PCIe & SATA mode)
	mSATA	1 x full/half mini-PCIe with SATA
<b>Rear I/O</b>	HDMI	1
	Display Port	2
	USB3.2 Gen1	4
	Ethernet	2
	Serial Port	2(RS232/422/485)
	Audio jack	2
<b>Internal Connector</b>	Serial Port	4 (RS232)
	USB3.2 Gen1	1 x Header Support Additional 2 x USB3.2 Gen1 Connectors
	USB2.0	2 x Header Support Additional 4 x USB2.0 Connectors
	CPU Fan Connector	1 (PWM Mode)
	Chassis Fan Header	1 (PWM+DC Mode)
	Front Panel Audio Header (AAFP)	1
	System Panel Header	1 (10-1 Pin)
	Clear CMOS Jumper	1
	Speaker Connector	1 (4-pin)
	LPC Debug Header	1
	GPIO Header	1 (8 Bit)
	AT/ATX Select Header	1
	Power Connector	1 X 4-pin ATX Power Connector, 1 X 24-pin ATX Power Connector

# Specifications

<b>Watchdog Timer</b>	H/W	YES
<b>Security</b>	TPM	1 x SPI TPM header
<b>Power</b>	Power Type	both ATX/AT mode
<b>Operating System</b>	Microsoft Windows	Windows® 10 (64bit ) / Win10 IoT Enterprise
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
<b>Environment</b>	Operating Temperature	0~60° C
	Non-Operating Temperature	-40~85° C
	Relative Humidity	0%~85%
<b>Dimension</b>	Form Factor	Mini-ITX, 170 x 170 mm
<b>Certification</b>	Safety	CE, FCC

# Block Diagram

