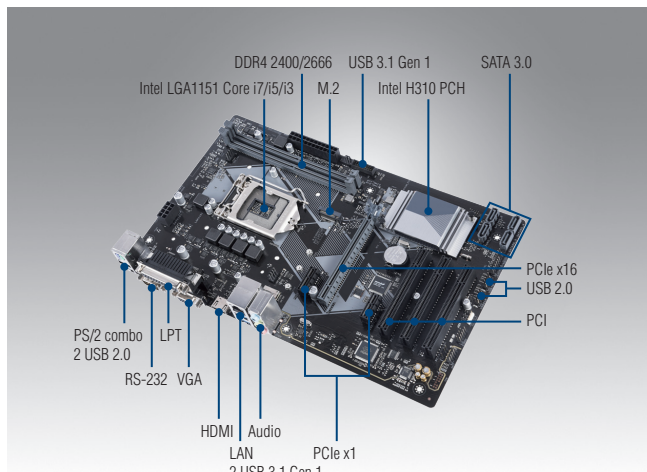


AIMB-736

**LGA1151 8th/9th Generation Intel®
Core™ i7/i5/i3/Pentium®/Celeron® ATX
with HDMI/VGA, DDR4, M.2, SATA 3.0,
USB 3.1 & COM**



Features

- Intel® 8th/9th generation Core™ i7/i5/i3/Pentium®/Celeron® processor with H310 chipset
- Dual channel (Non-ECC) DDR4 2400/2666 up to 64 GB
- Support VGA and HDMI display
- M.2 with M key type 2242/2260/2280
- SATA 3.0, USB 3.1, GbE, RS-232 serial port
- 1 PCIe x16 (Gen 3) and 2 PCIe x1 (Gen 2), and 3 PCI expansion slots

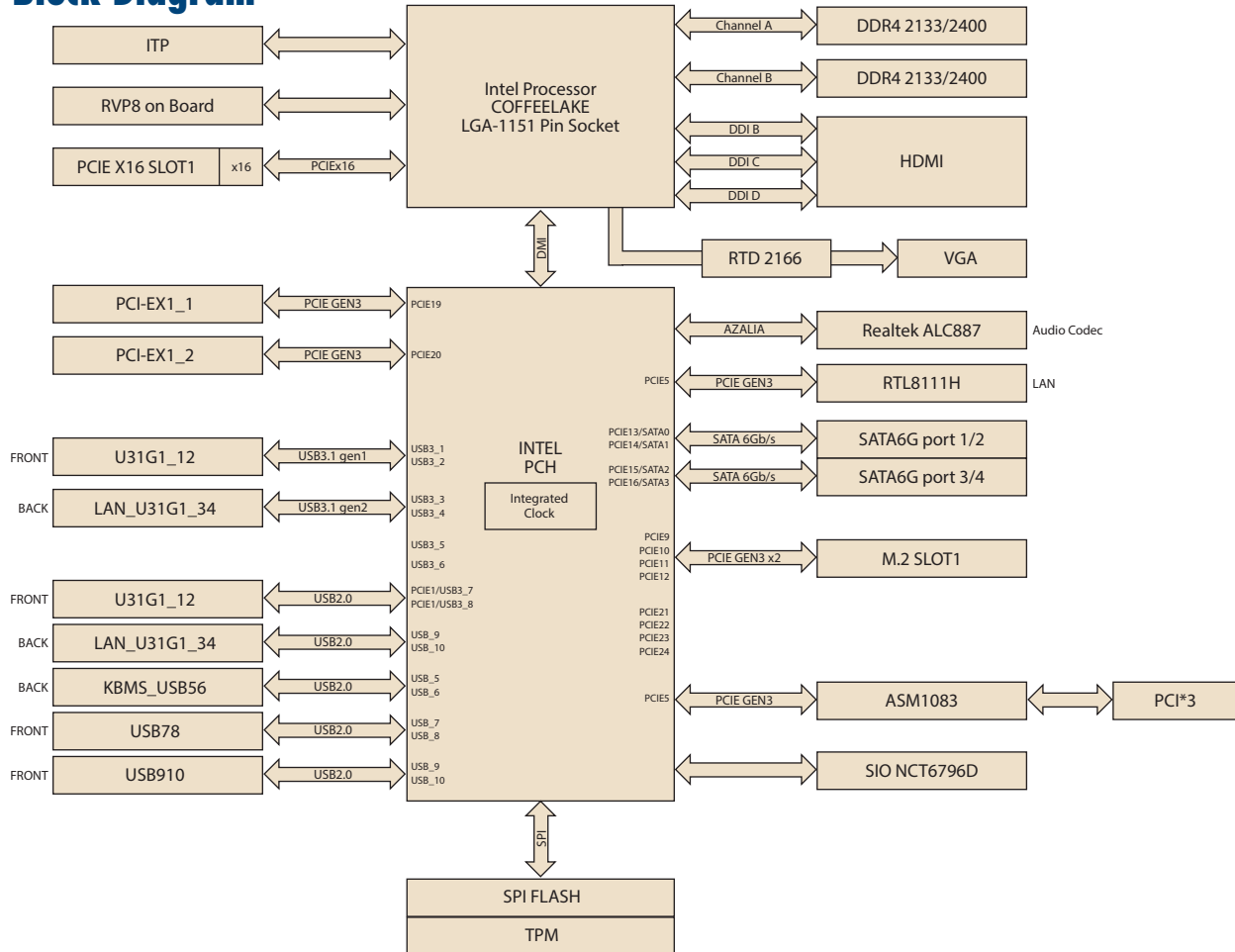
Note: Intel 8th/9th generation processors only support Windows 10 (64-bit).

Specifications

Processor System	CPU	i7-9700E	i7-9700TE	i7-8700	i7-8700T	i5-9500E	i5-9500TE	i5-8500	i5-8500T	i3-9100E	i3-9100TE	i3-8100	i3-8100T	G5400	G5400T	G4900	G4900T		
	Speed	2.6GHz	1.8 GHz	3.2 GHz	2.4 GHz	3.0 GHz	2.2 GHz	3.0 GHz	2.1 GHz	3.1 GHz	2.2 GHz	3.6 GHz	3.1 GHz	3.7 GHz	3.1 GHz	3.1 GHz	2.9 GHz		
	L3 Cache	12 MB	12 MB	12 MB	12 MB	9 MB	9 MB	9 MB	9 MB	6 MB	6 MB	6 MB	6 MB	4 MB	4 MB	2 MB	2 MB		
	Cores	8	8	6	6	6	6	6	6	4	4	4	4	2	2	2	2		
	TDP	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	58 W	35 W	54 W	35 W		
	Socket	LGA1151																	
	Chipset	Intel H310																	
	BIOS	AMI 128Mbit SPI Flash																	
Expansion Slot	PCI	32-bit/33 MHz, 3 slots																	
	PCIe x1 (Gen 2)	2 GB/s per direction, 2 slot																	
	PCIe x16 (Gen 3)	16 GB/s per direction, 1 slot																	
Memory	Technology	Dual Channel(Non-ECC) DDR4 2400/2666																	
	Max Capacity	64 GB																	
	Sockets	2 x 288-pin DIMM																	
Graphics	Controller	Chipset integrated Intel HD Graphics																	
	VRAM	Shared system memory is subject to OS																	
Ethernet	Interface	10/100/1000 Mbps																	
	Controller	GbE LAN: Realtek 8111H																	
	Connector	1 x RJ-45																	
Rear I/O	VGA	1 (Resolution up to 1920 x 1200 @ 60 Hz)																	
	HDMI	1 (Resolution up to 4096 x 2160 @30 Hz)																	
	Ethernet	1																	
	USB	4 (2 x USB 3.1 Gen 1, 2 x USB 2.0)																	
	Audio	3 (Line-in, Line-out, Mic-in)																	
	Serial	1 (RS-232)																	
	Parallel	1																	
	PS/2	1 (keyboard/mouse combo)																	
Internal Connectors	USB	6 (2 x USB 3.1 Gen 1 via header, 4 x USB 2.0 via header)																	
	Serial	1 (RS-232)																	
	M.2 (M key)	1 (PCIe x2 and SATA, type 2242/2260/2280)*																	
	SATA	4																	
Power Requirement	Test Environment	Intel Core i7-9700 3.0 GHz; DDR4 2666 16 GB x 2; SATA SSD 120 GB																	
	Voltage	12V_CPU			12V			5V			3V			5VSB			-12V		
	Current	6.38A			0.151A			2.01A			0.236A			0.135A			0.028A		
Environment		Operating																	
	Temperature	-10 ~ 50 °C (14 ~ 122 °F), depends on CPU speed and system thermal solution																	
	Humidity	0 ~ 95 %																	
Physical Characteristics	Dimensions (L x H)	305 x 191 mm (12" x 7.5")																	

* When a device in SATA mode is installed on the M.2 socket, SATA_2 port cannot be used. Due to the Chipset limitation, when a M.2 device is installed in PCIe mode, the socket is set to PCIe 2.0.

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	USB 3.1 Gen 1	USB 2.0	COM	GbE LAN	AMT	SATA	SW RAID
AIMB-736VG-00A1	H310	Non-ECC	VGA + HDMI	4	6	2	1	No	4	No

Packing List

Description	Quantity
SATA HDD cable	x2
M.2 screw pack	x1
I/O port bracket	x1
Startup manual	x1
Support DVD	x1

I/O View



AIMB-736VG-00A1