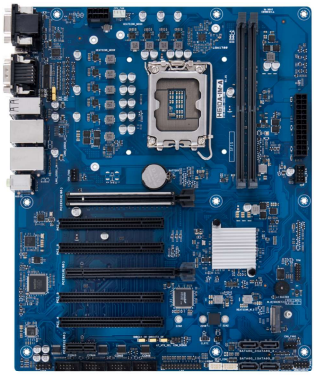
ATX, LGA1700 socket for the 13th / 12th Gen CPU, H610 chipset, 2*U-DIMM, 1*PCIe 5.0 x16 slot, 1*PCIe 3.0/2.0 x16 slot(x4 mode), VGA, HDMI, DP, Dual LAN, M.2 slot, USB 3.2 Gen2



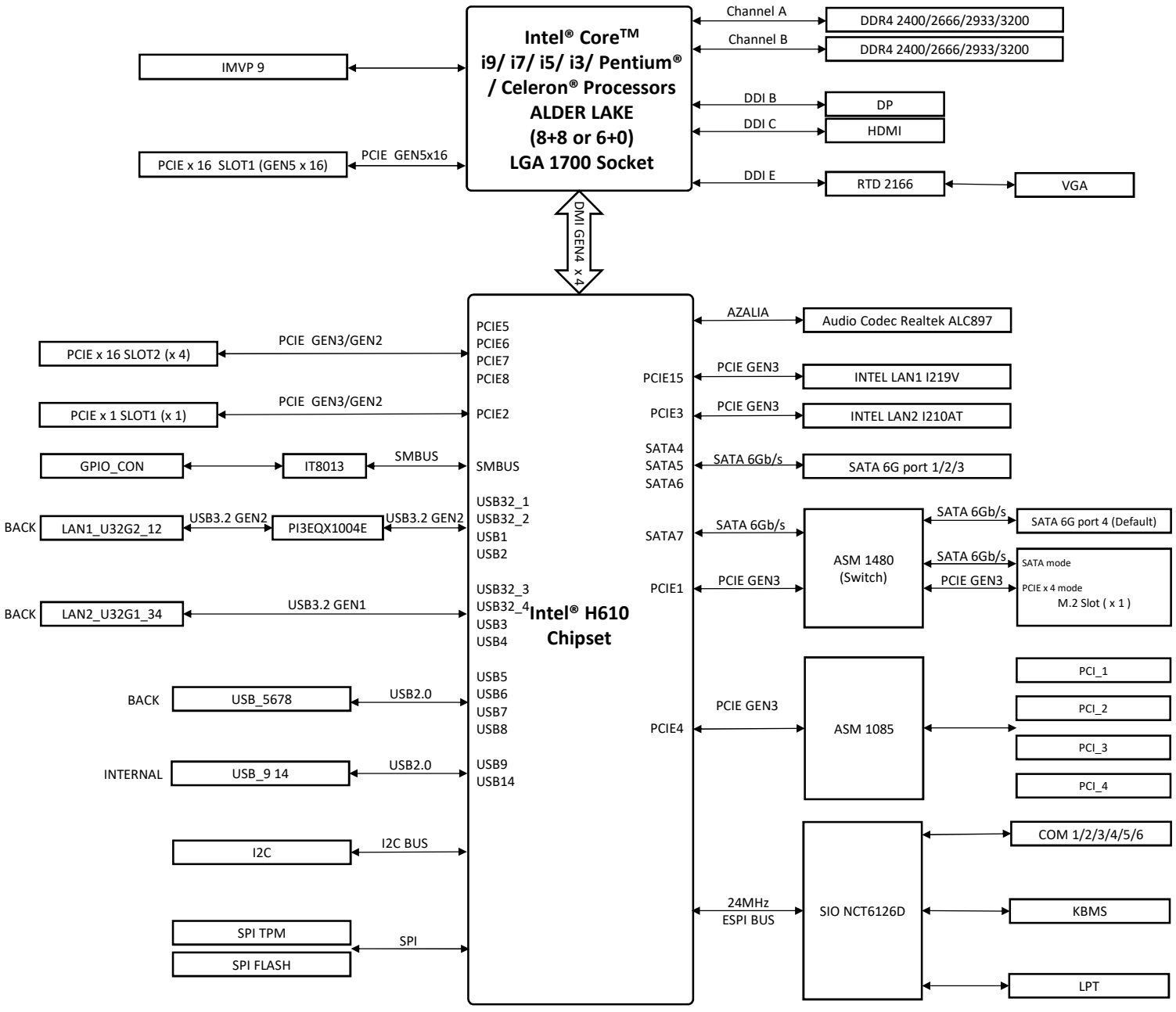
Features

- Two U-DIMM up to 64GB DDR4 up to 3200 MHz
- Supports 3 displays: VGA/ HDMI /DP
- 7-year longevity supply
- Wide temperature Range: 0~60°C

Specifications

Processor System	CPU	LGA1700 Socket for Intel® Core™ i9/ i7/ i5/ i3/ Pentium® /Celeron® Processors support 13th/12th Gen CPU, Max. 125W TDP
	CHIPSET	Intel® H610 chipset
Memory	Technology	Up to DDR4 2400/2666/2933/3200 MHz
	Max.	64GB
	Socket	2 x U-DIMM
Display	HDMI	1, Supports HDMI 2.1 up to 4096 x 2160 @ 60 Hz
	VGA	1, up to 1092 x 1200 @ 60 Hz
	DP	1, up to 4096 x 2160 @ 60 Hz
	Triple Display	DP+HDMI+VGA(default)
Expansion Slot	PCIe x16	1 x PCIe 5.0 x16 slot
	PCIe x4	1 x PCIe 3.0/2.0 x16 slot (x4 mode) 1 x PCIe 3.0/2.0 x1 slot
	PCI	4 x PCI slot
	M.2	1 x M.2 Socket 3 with M key, type 2242/2260/2280(SATA / PCIe x 1 mode)
Ethernet	Speed	10/100/1000Mbps
	Controller	1 x Intel® I219V, 1 x Intel® I210AT
	Connector	2 x RJ-45
Audio	Codec	Realtek ALC897 High Definition Audio
	Connector	Line-Out, Mic-In
Storage	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(SATA/PCIe x 1 mode)
Rear I/O	HDMI	1
	VGA	1
	DP	1
	USB 3.2	4(2 x USB 3.2 Gen2, 2 x USB 3.2 Gen1)
	USB 2.0	4
	Ethernet	2
	Serial Port	2(RS232/422/485)
	Audio jack	2
Internal Connector	Serial Port	4 (RS232)
	USB2.0	1 x Header Support Additional 2 x USB2.0 Connectors
	CPU Fan Connector	1 (PWM Mode)
	Chassis Fan Header	2 (PWM Mode)
	Chassis Intrusion Header	1
	Front Panel Audio Header (AAFP)	1
	System Panel Header	1 (10-1 Pin)
	Buzzer	1
	Clear CMOS Jumper	1
	Speaker Connector	1 (4-pin)
	COM Debug Header	1
	I2C Header	1
	Parallel	1
	GPIO Header	1 (8 Bit)
	PS/2	1
	AT/ATX Select Header	1
	Power Connector	2 X 4-pin ATX Power Connector, 1 X 24-pin ATX Power Connector

Specifications

Watchdog Timer	H/W	YES
Security	TPM	1 x SPI TPM header
Power	Power Type	both ATX/AT mode
Operating System	Microsoft Windows	Windows® 10 (64bit) / Win10 IoT Enterprise
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
Environment	Operating Temperature	0~60° C
	Non-Operating Temperature	-40~85° C
	Relative Humidity	10%~95%
Dimension	Form Factor	ATX
Certification	Safety	CE, FCC

Block Diagram