

H810A-IM-A

ATX, Intel® Core™ Ultra Processors(Series 2), LGA1851, H810 chipset, 2*U-DIMM, 2*PCIe x16 slots, VGA, HDMI, DP, Dual LAN, M.2 slot, USB 3.2 Gen2

Features

- Support up to 65W Intel® Core™ Ultra Processors(Series 2)
- Two U-DIMM up to 96GB DDR5 up to 6400 MHz
- Supports multiple displays: VGA/ HDMI / DP
- 5-year longevity supply

Specifications

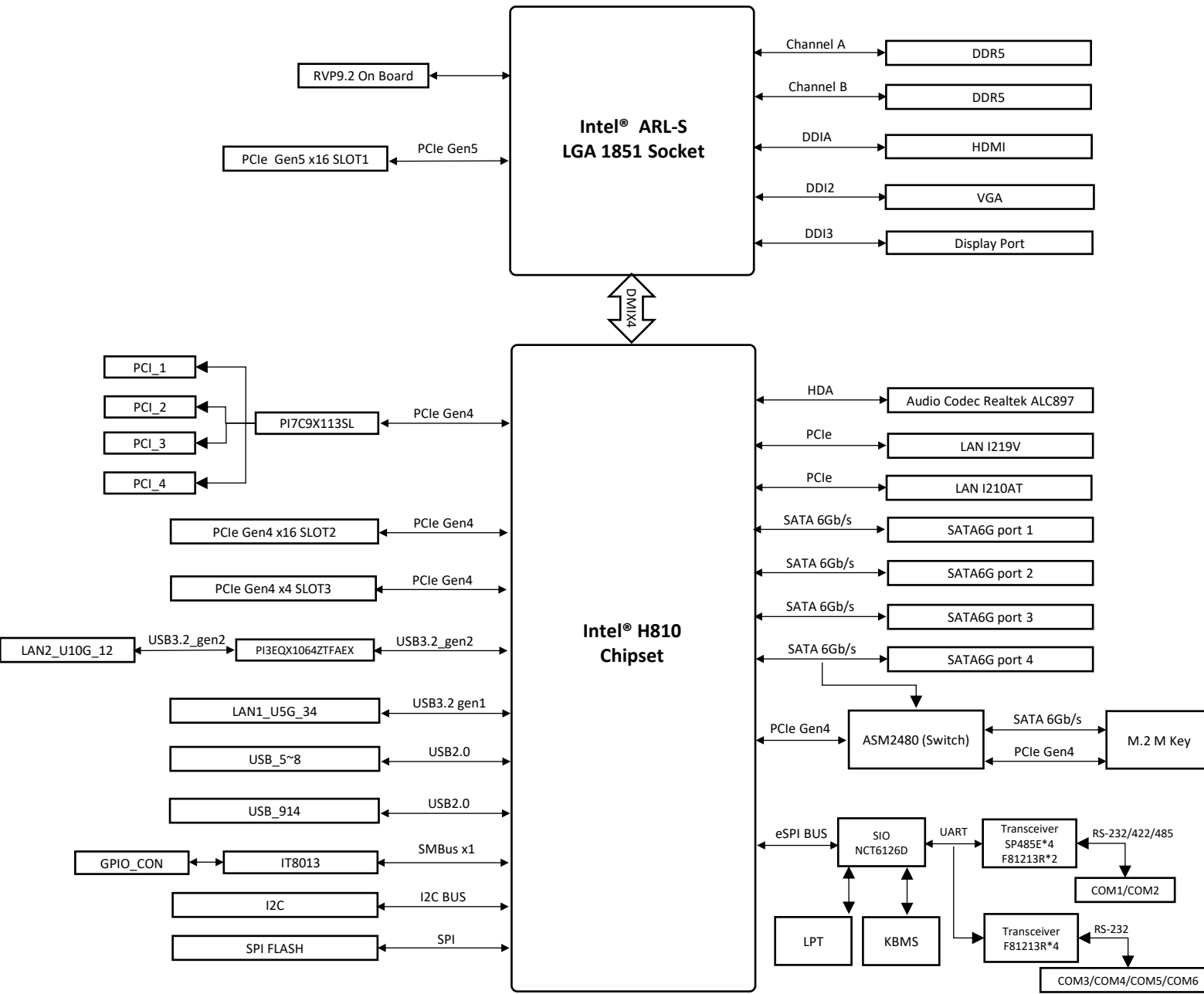


Processor System	CPU	LGA1851 for Intel® Core™ Ultra Processors(Series 2) Max. 65W TDP
	CHIPSET	Intel® H810 chipset
Memory	Technology	DDR5 6400MT/s (1SPC)
	Max.	96GB
	Socket	2 x U-DIMM
Display	HDMI	1, Supports 2.1, up to 4096 X 2160 @ 60Hz
	VGA	1
	Display Port	1, Supports DP 1.4, up to 3840 x 2160 @ 60Hz
	Multiple displays	DP+HDMI+VGA(default)
Expansion Slot	PCIe	1 x PCIe 5.0 x16 slot (x16 mode) 1 x PCIe 4.0 x16 slot (x4 mode) 1 x PCIe 4.0 x4 slot (x1 mode, open slot)
	PCI	4
	M.2	1 x M.2 Socket 3 with M key, type 2242/2260/2280(SATA / PCIe x 1 mode) *If install SATA device on M.2 M key slot, SATA port4 will be disabled.
Ethernet	Speed	10/100/1000Mbps
	Controller	1 x Intel® I219V 1 x Intel® I210AT
	Connector	2 x RJ-45
Audio	Codec	Realtek ALC897
Storage	SATA port	4 x SATA Gen 3.0, Up to 6Gb/s
Rear I/O	HDMI	1, Supports 2.1, up to 4096 X 2160 @ 60Hz
	VGA	1
	Display Port	1, Supports DP 1.4, up to 3840 x2160 @ 60Hz
	USB 3.2 Gen2	2
	USB 3.2 Gen1	2
	USB 2.0	4
	Ethernet	2 x RJ45
	Serial Port	2 (RS232/422/485)
	Audio jack	3 (Line-Out, Line-In, Mic in)
Internal Connector	COM Header	4 x COM Headers (RS232)
	SGPIO Header	1 x Header
	USB2.0	1 x Header Support Additional 2 x USB2.0 Ports
	PL_SEL Header	1 x Header
	Auto Retry Header	1 x Header
	CPU Fan/ Chassis Fan	1 x Header (PWM Mode) / 2 x Headers (PWM Mode)
	Chassis Intrusion	1 x Header
	Front Panel Audio (F_Audio)	1 x Header
	System Panel	1 x Header
	Buzzer	1
	Clear CMOS	1 x Header
	Speaker Connector	1 x Header

Specifications

Internal Connector	LPT Port Header	1 x Header (GPIO 16bit multi function)
	COM Debug	1 x Header
	I2C Header	1 x Header
	GPIO	1 x Header (8 Bit)
	PS/2	1 x Header
	AT/ATX Select Header (Jumper)	1 x Header
	Power Connector	1 x 24-pin ATX Power connector, 1 x 8-pin ATX 12V Power connector
Security	TPM	1 x SPI TPM header
Watchdog Timer	H/W	YES
Power Type	Power Type	AT mode/ ATX mode
OS & Software Support	Microsoft Windows	Windows® 10 IoT Enterprise LTSC/Windows® 11 IoT Enterprise LTSC
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
	ASUS IoT Suite	☒ HW Monitor ☒ Watch Dog Timer ☒ Linux Sample code ☒ Power Scheduling ☒ GPIO ☒ Fan Control ☒ I2C (API only)
	User Interfaces	☒ API ☒ GUI
Environment	Operating Temperature	-20~70° C
	Non-Operating Temperature	-40~85° C
	Relative Humidity	Operational humidity: 40° C@10%~95%
Mechanical	Dimensions	ATX, 305 x 244 mm
Certification	EMC (CLASS B)	CE, FCC, BSMI, VCCI, RCM
	Safety	CE-LVD

Block Diagram



Order Information

Model name	Part number	Description
H810A-IM-A	90ME0A6*	LGA1851, H810, DP, HDMI, VGA, MB

* The part number might vary for different regulations and package. Please consult the TPM in your region for exact 90PN.

Packing List

Part number	Description	Quantity
13020*	IO shield	1
14013*	SATA 6G CABLE	1
13020*	M.2 SCREW PACK	1

* The part number might vary due to part number revision.