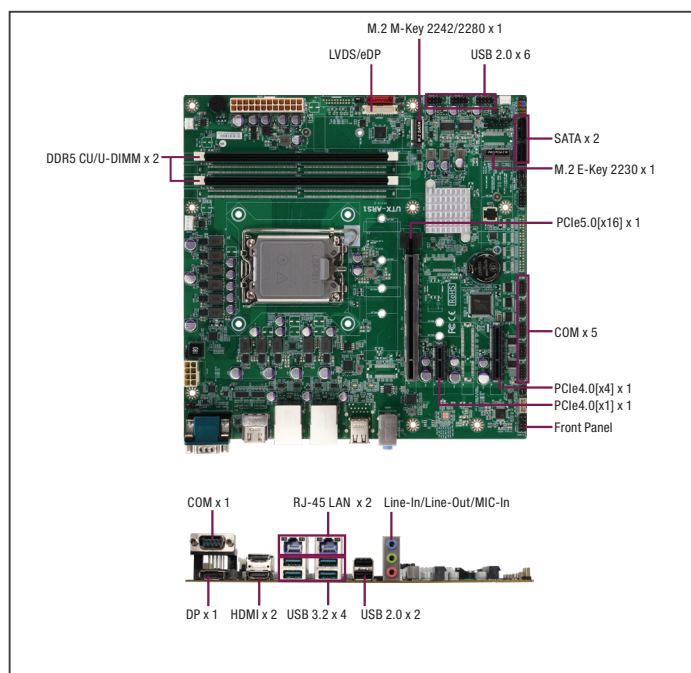


# MAX-H810A PRELIMINARY

Micro-ATX with Intel® Core™ Ultra (Series 2) LGA 1851 Socket Processors



## Features

- Intel® Core™ Ultra (Series 2) LGA 1851 Socket Processors
- DDR5 6400MT/s Dual-Channel CU/U-DIMM x 2 up to 128GB
- M.2 M-Key x 1, M.2 E-Key x 1
- USB 3.2 x 4, USB 2.0 x 8
- Intel® Ethernet Controller I226-V, 2.5GbE x 2
- SATA 6Gb/s x 2 with RAID 0, 1, 5
- PCIe Gen 5 [x16] x 1, PCIe Gen 4 [x4] x 1, PCIe Gen4 [x1] x 1
- ATX Power



## Specifications

System	
Processor	Intel® Core™ Ultra (Series 2) LGA 1851 Socket Processors
Chipset	Intel® H810 Chipset
Memory	DDR5 6400MT/s x 2, Dual-Channel CU/U-DIMM, up to 128GB
I/O Chipset	SIO: Fintek F81966
Ethernet	Intel® Ethernet Controller I226-V, 2.5GbE x 2
Audio	Realtek® ALC897 with AMP (3W)
TPM	Intel® PTT (iTPM)
Expansion Slots	PCIe Gen 5 [x16] x 1 PCIe Gen 4 [x4] x 1 PCIe Gen 4 [x1] x 1 M.2 2230 E-Key (PCIe Gen 4 [x1]/USB 2.0) x 1, CNVi supported
BIOS	UEFI
H/W Monitor	TBD
WatchDog Timer	255 Levels
Smart Fan Control	CPU Fan/System Fan
Wake On LAN/ PXE	Yes (WOL)
Power State	S3, S5
Graphics	
Graphics Chipset	Intel® Graphics
Graphics Multi Display	Supports 3 Displays
VGA	—
DVI	—
HDMI	HDMI 2.1 TMDS x 2 (Max Resolution: 4096 x 2160@60Hz)
Display Port	DP 1.4a x 1 (Max Resolution: 4096 x 2160@60Hz)
LVDS	24-bit Dual-Channel LVDS x 1 (Max. Resolution: 1920 x 1200 @60Hz, co-layout eDP)
eDP	Co-lay LVDS
Backlight Control	Yes
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	ATX Power Supply, Internal 24+8-pin ATX Header
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) (Operational humidity: 10~90% Relative Humidity, Non-condensing)
Storage Temperature	-4°F ~ 185°F (-20°C ~ 85°C)
Certificate	CE & FCC Class A, LVD
Form Factor	Micro-ATX: 9.6" x 9.6" (244 mm x 244 mm)
Weight	TBD
MTBF (Hours)	TBD

### Rear Panel I/O Ports

USB	USB 3.2 Gen 2x1 (10Gbps) x 2 USB 3.2 Gen 1x1 (5Gbps) x 2 USB 2.0 x 2
Display I/O	HDMI 2.1 TMDS x 2, DP 1.4a x 1
Audio I/O	Mic-in x 1, Line-out x 1, Line-in x 1
LAN I/O	RJ-45 LAN x 2
Serial Port	DB-9 for RS-232/422/485 x 1
PS/2 Port	—
Others	—

### Internal I/O Connectors

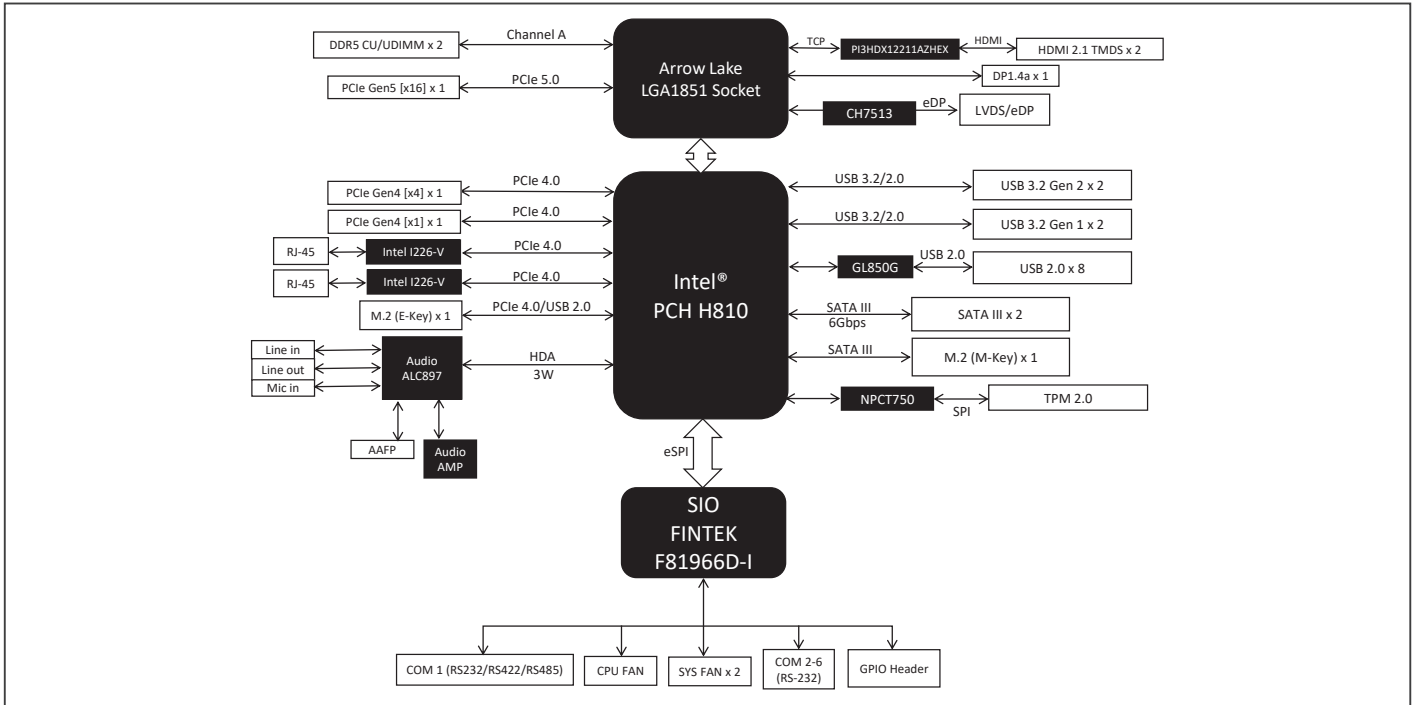
Storage	SATA 6Gb/s x 2, RAID 0/1 supported M.2 2242/80 M-Key x 1 (SATA)
USB	USB 2.0 x 6 via pin-header x 3
Display I/O	LVDS/eDP Connector x 1
Audio I/O	Speaker header x 1, Front Panel x 1
Serial Port	Internal Header for DB-9 x 5 for RS-232
PS/2 Port	PS/2 x 1
Parallel Port	—
DIO	8-bit Header x 1
FAN	CPU Fan Header x 1 System Fan Header x 2
Power	24+8-pin ATX Header
Others	Chassis Intrusion x 1, AT/ATX Mode Selection x 1
OS	
OS Support	Windows® 11 (64bit)/Linux

## Packing List

- MAX-H810A Motherboard
- COM Cable
- SATA Cable
- IO Shield
- Jumper

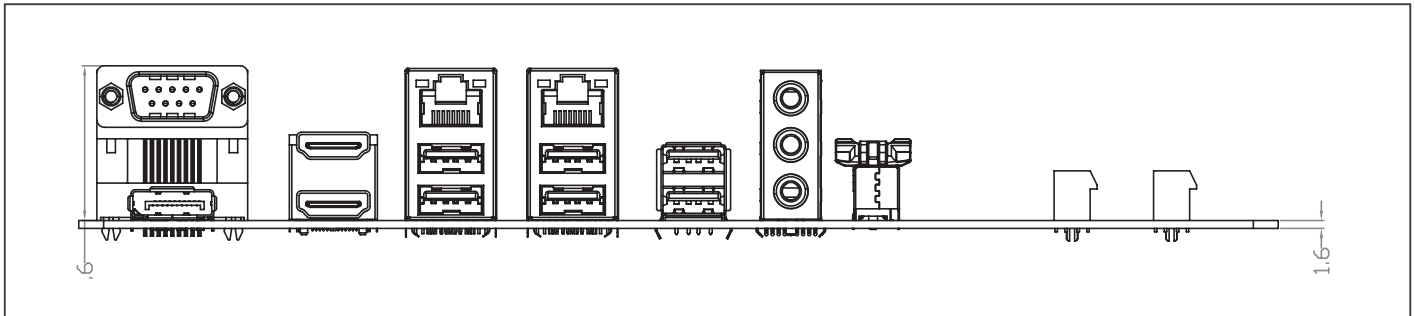


## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	Fan/ Fanless	Display	LVDS/eDP	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	TPM	Temp.
MAX-H810A-A10	Socket	U-DIMM x 2	Fan	HDMI 2.1 TMDS x 2, DP 1.4a x 1	LVDS/eDP x 1	SATA 6Gb/s x 2, M.2 2242/2280 M-Key x 1	2.5GbE x 2	USB 3.2 x 4, USB 2.0 x 8	5	1	PCIe Gen 5 [x16] x 1 PCIe Gen 4 [x4] x 1 PCIe Gen 4 [x1] x 1 M.2 2230 E-Key x 1	ATX	Intel® PTT (fTPM)	-4°F ~ 140°F (20°C ~ 60°C)

## Optional Accessories

- TBD