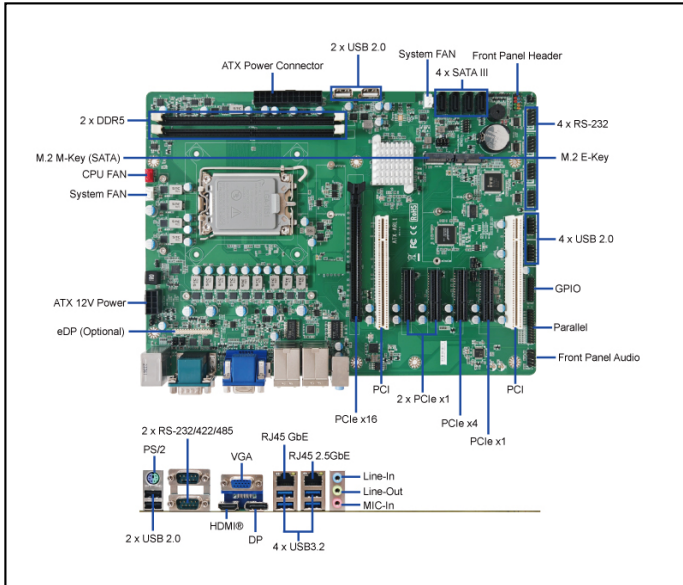


ATX Industrial Motherboard Supporting Intel® Core™ Ultra Processors (Series 2), Socket LGA1851



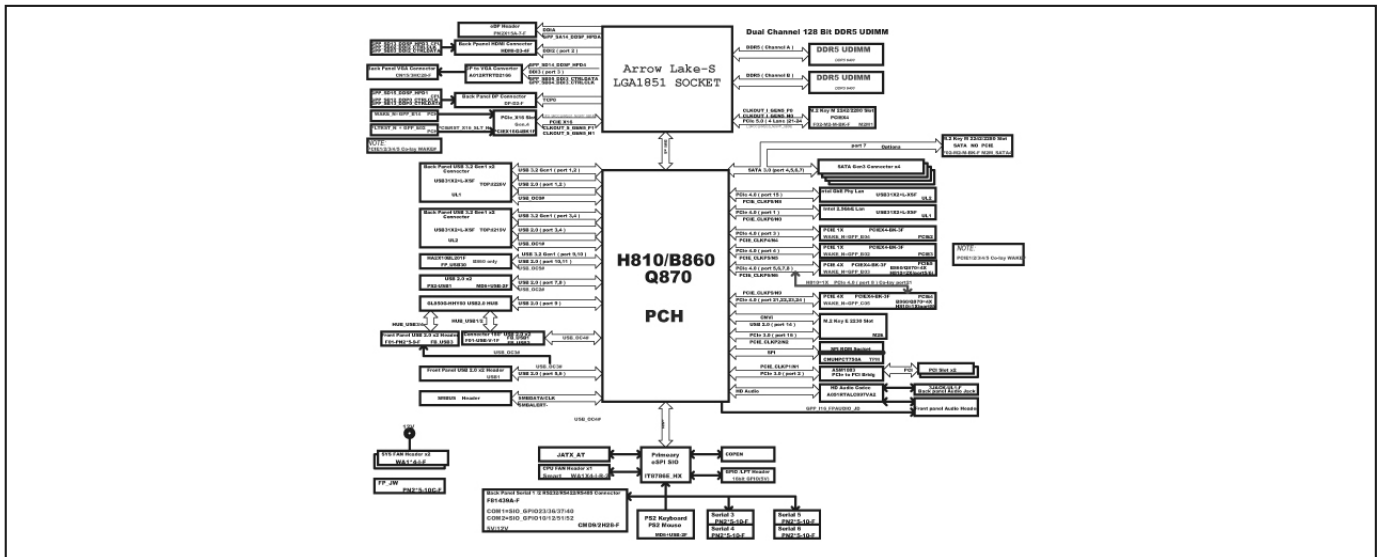
Features

- Powered by Intel® Core™ Ultra processors (Arrow Lake-S) with H810 chipset
- 2 x DDR5 6400MT/s UDIMM up to 96GB
- 1 x VGA, 1 x HDMI®, 1 x DP
- 1 x 2.5GbE LAN, 1 x GbE LAN
- 6 x COM, 4 x USB3.2 (Gen.1), 6 x USB2.0, 2 x USB2.0 Type-A□Vertical□
- 1 x M.2 M-key, 2242/2280 (SATA Interface), 1 x M.2 E-key, 2230 (CNVi/USB2.0 Interface)
- 1 x PCIe x16 (Gen4), 1 x PCIe x4 (Gen4), 3 x PCIe x1 (Gen4), 2 x PCI

Specifications

SYSTEM	
MB FORM FACTOR	ATX
CPU	Intel® LGA1851 Socket Ultra 9/7/5th Gen Processor (Max. TDP 125W)
CHIPSET	Intel® Arrow lake-S H810 Chip
MEMORY	2 x DDR5 6400MT/s, Dual Channel U-DIMM, up to 96GB
BIOS	AMI Flash ROM
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM) & TPM 2.0 (dTPM)
RTC BATTERY	Lithium Battery
DIMENSION (W X D)	305.0 (W) x 220.0 (D) mm (12" x 8.7")
OS SUPPORT	Windows® 11 (64bit), Windows® 10 (64bit), Linux
POWER	
POWER REQUIREMENT	ATX Power Supply
POWER ON MODE	AT / ATX (Default) Mode
CONNECTOR	24+8-pin ATX PWR
DISPLAY	
GPU	Intel® HD Graphics
DP	1 x DP2.1 (Max Resolution:7680 x 4320@60Hz)
HDMI®	1 x HDMI® 2.0 (Max Resolution: 4096 x 2304@60Hz)
VGA	1 x VGA (Max Resolution: 1920 x 1080 @60Hz)
MULTIPLE DISPLAY	Support 3 Displays
AUDIO	
CODEC	Realtek ALC897
Line-in	1 x Audio Jack for Line-In
Line-out	1 x Audio Jack for Line-Out
MIC-in	1 x Audio Jack for MIC-In
LAN	
ETHERNET	1 x RJ45 for Intel® I226-V 2.5GbE 1 x RJ45 for Intel® I219-V GbE
USB PORT	
USB	4 x USB 3.2 Gen 1 2 x USB 2.0 Internal Header for 4 x USB 2.0 Internal USB Type A (Vertical) for 2 x USB 2.0
SERIAL PORT	
COM	Internal Header for 4 x RS-232 2 x DB-9 for RS-232/422/485
INTERNAL I/O	
GPIO	16 bit GPIO (5V) co-layout LPT
SMBUS	Yes
FAN	1 x CPU Fan Header 2 x System Fan Header
FRONT PANEL	HDD Active LED, Power LED, Power On/Off, Reset
ADDITIONAL	1 x Chassis intrusion 1 x AT/ATX Mode Selection 1 x Case Open 1 x eDP (Optional)
STORAGE	
SATA	4 x SATA III
EXPANSION	
PCIe	1 x PCIe x16 (Gen 4) 4 x PCIe Gen4 slots (PCIe2/PCIe3: x1, PCIe4: x4) or (PCIe2/PCIe3/PCIe5: x1, PCIe4: x2) 2 x PCI
M.2	1 x M-key 2242/2280 (SATA interface, co-layout SATA4) 1 x E-Key 2230 (USB2.0 + CNVi interface)
OTHERS	
OTHER	1 x PS/2
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	0°C - 60°C (32°F - 140°F)
STORAGE TEMPERATURE	-20°C - 70°C (-4°F - 158°F)
OPERATING HUMIDITY	10 - 90% @ 40°C, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS, China RoHS, REACH (Option)

Block Diagram



Dimension Unit: mm

