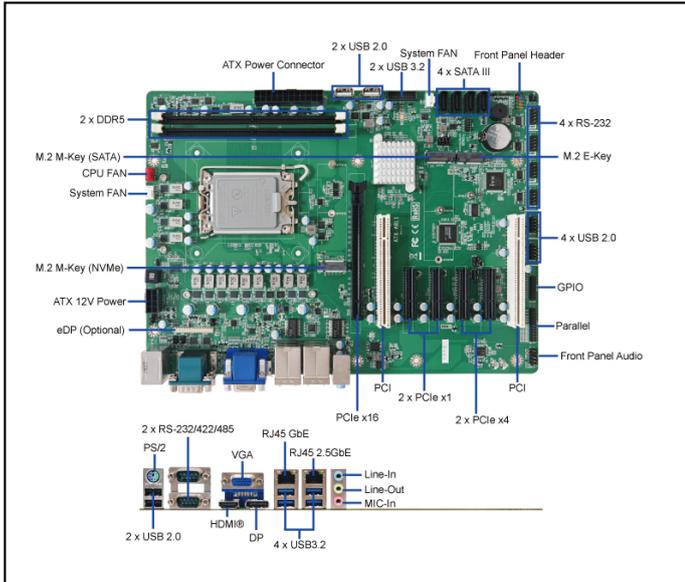# ATX-ARL1-B860

ATX

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

Features

- **Powered by Intel® Core™ Ultra processors (Arrow Lake-S) with B860 chipset**
- **2 x DDR5 6400MT/s UDIMM up to 96GB**
- **1 x VGA, 1 x HDMI®, 1 x DP, 1 x eDP**
- **1 x 2.5GbE LAN, 1 x GbE LAN**
- **6 x COM, 6 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 M-key, 2242/2280 (NVMe☐PCI-Ex4 Interface), 1 x M.2 E-key, 2230 (CNVi/PCI-Ex1+USB2.0 Interface)**
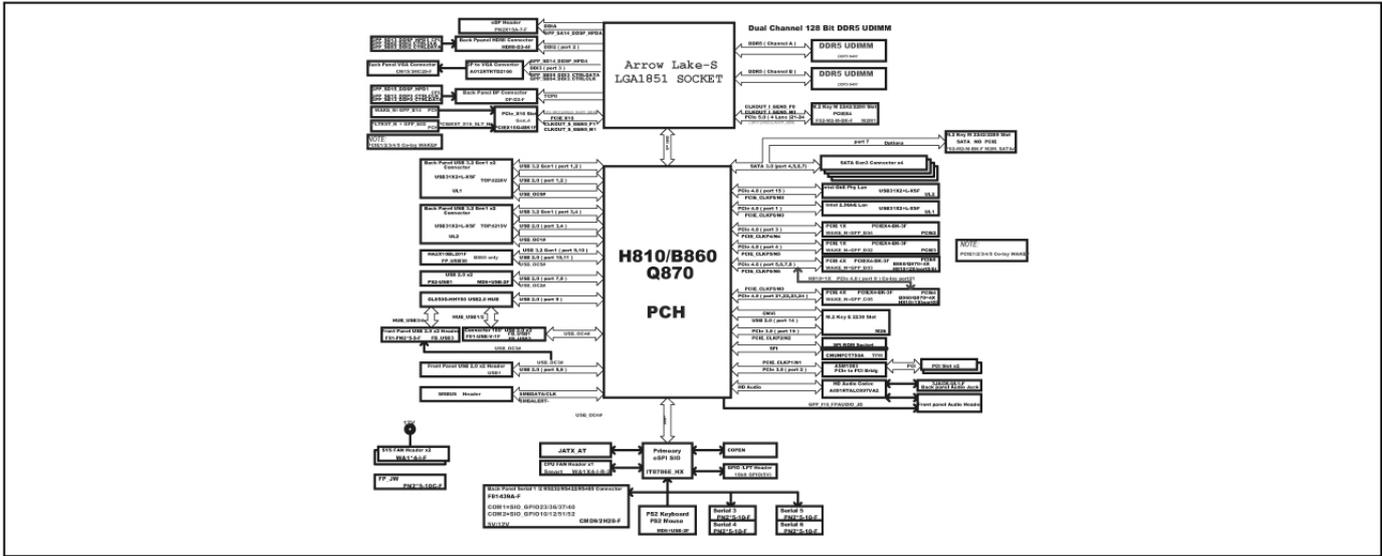- **1 x PCI-Ex16 (Gen.4), 2 x PCI-Ex4 (Gen.3), 2 x PCI-Ex1 (Gen.3), 2 x PCI**

Packing List

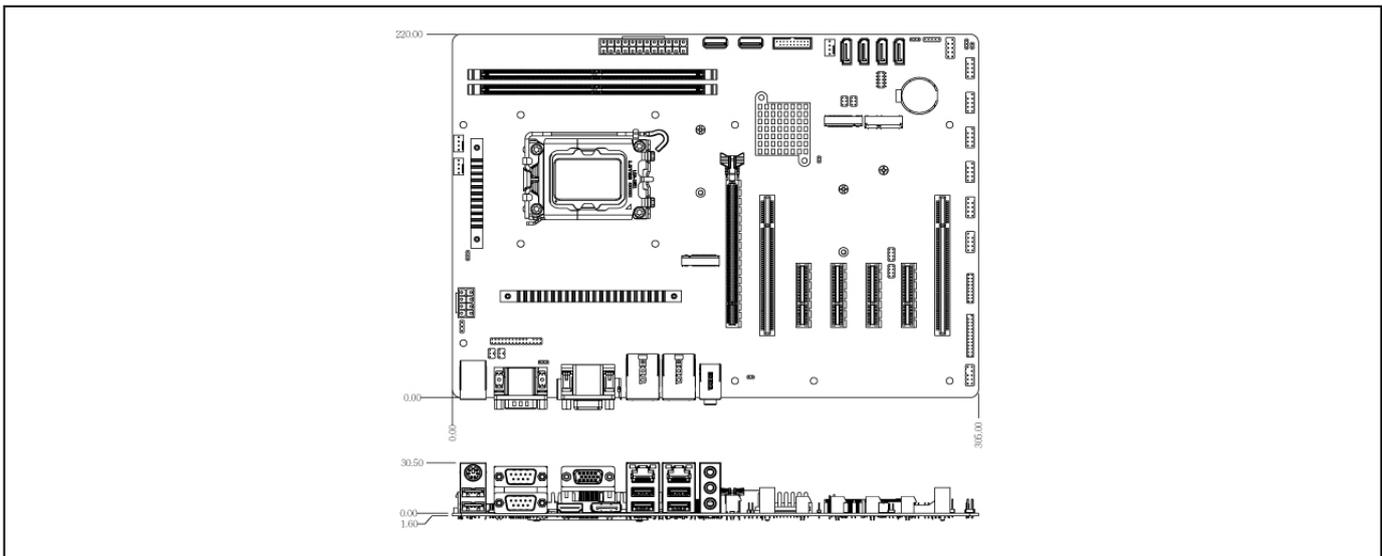| PART NUMBER	DESCRIPTION	QTY
F04-MB-060-1F	LA31 2U/PS2+2COM+HDMI+HDMI/VGA+UL+UL+3JK	1
G01-SATA3-BL-1F	CABLE for SATA3 50cm Blue w/LOCK	2
G01-COM9X2-30A-1F	CABLE +COM9x2 K=10 30cm No bends + metal sheet	1

Specifications

SYSTEM

MB FORM FACTOR	ATX
CPU	Intel® LGA1851 Socket Ultra 9/7/5th Gen Processor (Max. TDP 125W)
CHIPSET	Intel® Arrow lake-S B860
MEMORY	2 x DDR5 6400MT/s, Dual Channel U-DIMM, up to 96GB
BIOS	UEFI
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
eDP	1 x eDP (Max Resolution: 2560 × 1600@60Hz)
DP	1 x DP2.1 (Max Resolution: 7680x4320@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 4 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	8 x USB 2.0 6 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1)

SERIAL PORT

COM	2 x DB-9 for RS-232/422/485 Internal Header for 4 x RS-232

INTERNAL I/O

GPIO	16 bit GPIO (5V) Co-lay 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

STORAGE

SATA	4 x SATA III

EXPANSION

M.2	1 x M-key 2242/2280 (SATA interface, Co-lay SATA4) 1 x M-key 2242/2280 (PCIe Gen5x4) Support NVMe 1 x E-Key 2230 (USB 2.0/PCIe x1) Support CNVio for Wi-Fi
PCIe	1 x PCI-Ex16 (Gen.4) slot 4 x PCI-Ex4 (Gen.4, PCIE2/PCIE3 Interface: PCI-Ex1) slots 2 x PCI

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% relative humidity, non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS REACH

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Note: All specifications are subject to change without notice.

ATX-ARL1-B860

Block Diagram

Dimension   Unit: mm

Ordering Information

PART NUMBER	ATX-ARL1-B86000A1	ATX-ARL1-B86002A1
CPU	Intel® Arrow Lake-S B860 Chip	Intel® Arrow Lake-S B860 Chip
SECURITY	Intel® PTT (fTPM)	Intel® PTT (fTPM) & TPM 2.0 (dTPM)

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