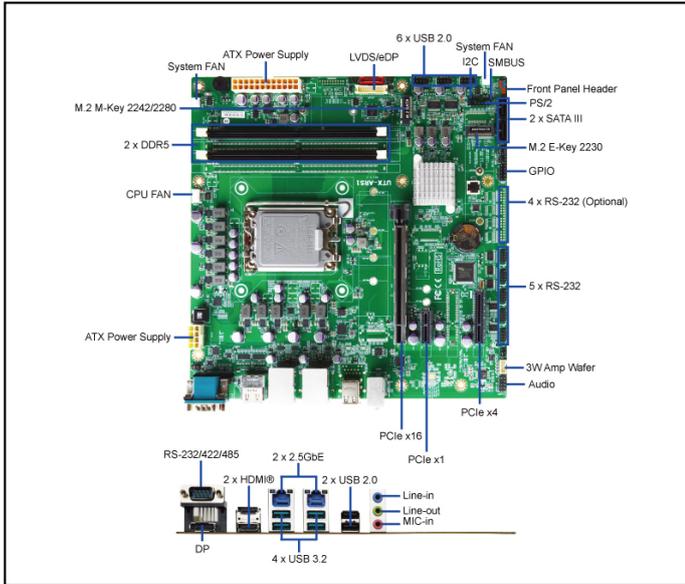


Micro-ATX Industrial Motherboard Supporting Intel® Core Ultra Processors (Series 2), Socket LGA1851



## Features

- Powered by Intel® Core™ Ultra Processors (Arrow Lake-S) with H810 chipset
- High-Speed Memory Support: 2 x DDR5 6400 MT/s CU-DIMM, up to 128GB
- Comprehensive I/O: 4 x USB 3.2, 6 x USB 2.0, MAX. 10 x COM
- Versatile Display Options: Supports 2 x 4K HDMI® 2.1 TMDS, 1 x 4K DP, and LVDS co-layout eDP
- Storage Expansion: 1 x M.2 M-Key, 2 x SATA III
- Additional Expansion: 1 x M.2 E-Key, 1 x PCIe Gen 5 x16, 1 x PCIe Gen 4 x4, 1 x PCIe Gen 4 x1
- Dual 2.5GbE Networking: 2 x Intel® 2.5GbE Ethernet ports
- Enhanced Security: Supports onboard TPM 2.0 (optional)

## Packing List

PART NUMBER	DESCRIPTION	QTY
UTX-ARS1	UTX-ARS1 Mother Board	
G01-COM-H2M22-1F	COM Cable	
G01-SATA3-BL-1F	SATA Cable, 50cm	
F04-MB-090-F	I/O Shield	
F01-SPBK-1F	Jumper	

## Specifications

SYSTEM	
MB FORM FACTOR	Micro-ATX
CPU	Intel® LGA1851 Socket, Processor Arrow Lake-S (MAX. TDP 125W) For additional compatible CPUs, please contact regional sales
CHIPSET	Intel® H810
MEMORY	2 x DDR5 6400MT/s, Dual Channel CU-DIMM, up to 128GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM) TPM2.0 (dTPM, Optional)
RTC BATTERY	Lithium Battery
DIMENSION (W X D)	244.0 (W) x 244.0 (D) mm (9.6" x 9.6")
OS SUPPORT	Windows® 11 (64bit) Linux
POWER	
POWER REQUIREMENT	ATX Power Supply
POWER ON MODE	AT / ATX (Default) Mode
CONNECTOR	Internal 24+8-pin ATX Header
DISPLAY	
GPU	Intel® Graphics
LVDS	1 x 24-bit Dual Channel LVDS (Max. Resolution: 1920 x 1200 @60Hz, Co-lay eDP)
DP	1 x DP1.4 (Max Resolution: 4096 x 2160 @60Hz)
HDMI®	2 x HDMI® 2.1 TMDS (Max Resolution: 3840 x 2160 @60Hz)
MULTIPLE DISPLAY	Support 3 Displays
AUDIO	
CODEC	Realtek Audio Codec
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
AMPLIFIER	3W
LAN	
ETHERNET	2 x RJ45 for Intel® I226-V 2.5GbE
USB PORT	
USB	2 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) 2 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1) Internal Header for 6 x USB 2.0
SERIAL PORT	
COM	1 x DB-9 for RS-232/422/485 Internal Header for 5 x RS-232 4x Internal Header for RS-232 (Optional)
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
I2C	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	2 x SATA III
EXPANSION	
M.2	1 x M-key 2280 (SATA) 1 x E-Key 2230 (USB 2.0/PCIe Gen.4 x1)
PCIe	1 x PCIe Gen.5 x16 1 x PCIe Gen.4 x4 1 x PCIe Gen.4 x1
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 85°C (-4°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% relative humidity, non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS China RoHS REACH

# UTX-ARS1-H810



Micro-ATX

## Dimension Unit: mm

