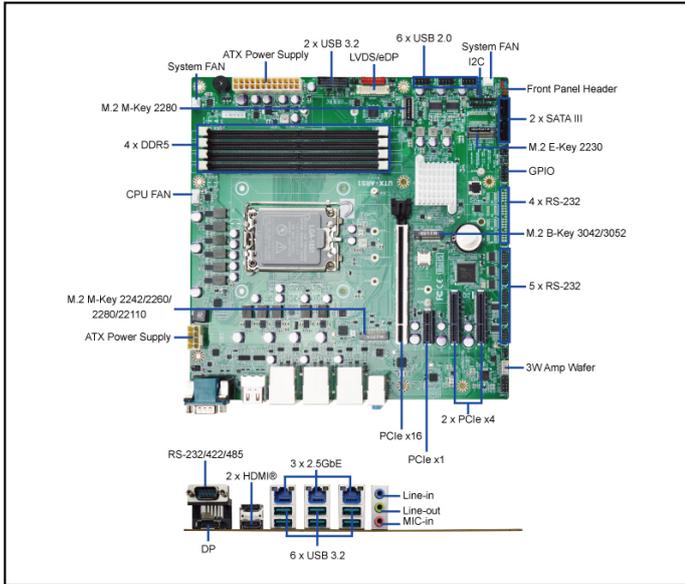


# UTX-ARS1-Q870



Micro-ATX

Micro-ATX Board with Intel® LGA1851 Core Ultra Series 2 Socket Processor Q870 supports AI boost



## Features

- **Powered by Intel® LGA1851 Core Ultra Series 2 Socket Processor (Formerly Arrow Lake-S, MAX. TDP 125W)**
- **Robust Memory: 4 x DDR5 6400 MT/s CU-DIMM, up to 256GB**
- **Versatile Display Options: Supports 2 x 4K HDMI® 2.1 TMDS, 1 x 4K DP, and LVDS co-lay eDP**
- **Storage Expansion: 2 x M.2 M-Key, 2 x SATA III with Intel® VMD RAID 0, 1, 5**
- **Additional Expansion: 1 x M.2 E-Key, 1 x M.2 B-Key, 1 x PCIe Gen.5 x16, 2 x PCIe Gen.4 x4, 1 x PCIe Gen.4 x1**
- **Triple Ethernet Ports: 3 x 2.5GbE for fast and reliable networking**
- **Comprehensive I/O: 6 x USB 3.2 Gen.2, 6 x USB 2.0, 10 x COM ports**
- **Enhanced Security: Supports onboard TPM 2.0 (optional)**

## 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® Q870
MEMORY	4 x DDR5 6400MT/s, Dual Channel CU-DIMM, up to 256GB
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 4 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	1 x RJ45 for Intel® I226-V 2.5GbE 1 x RJ45 for Intel® I226-LM 2.5GbE 1 x RJ45 for Realtek® RTL8156 2.5 GbE
USB PORT	
USB	6 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) Internal Header for 2 x USB 3.2 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 DB-9 for 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
RAID	Intel® VMD RAID 0, 1, 5
EXPANSION	
M.2	1 x M-Key 2242/2260/2280/22110 (PCIe Gen.4x4) Support NVMe 1 x M-key 2280 (SATA/PCIex4) support NVMe 1 x B-key 3042/3052 (USB3/USB2.0/PCIe Gen.4 x1) 1 x E-Key 2230 (USB 2.0/PCIe Gen.4 x1)
PCIe	1 x PCIe Gen.5 x16 2 x PCIe Gen.4 x4 1 x PCIe Gen.4 x1
SIM	1 x Nano SIM Card Slot
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)

Note: All specifications are subject to change without notice.

