

AMD-X-ARL1

Intel® Q870 base Motherboard Supports Intel®15th Generation Core™ Ultra-5/ Ultra-7/ Ultra-9 Processors with 4 DP, eDP, 2 SATAIII, 4 COM, 8 USB3.2, 3 USB2.0, 4 Intel 2.5GbE LAN



Key Features

- Intel®15th Generation support Core™ Ultra-5/ Ultra-7/ Ultra-9 S-processor, TDP 35W to 65W
- Two 262-pin SO-DIMM up to 64GB DDR5 5600MT/s SDRAM
- Multi-Display: Dual DP
- Four Intel® 2.5 Gigabit Ethernet ports
- 1 M.2 B+M-Key 3042 (WWAN, w/ nSIM) / 2242 (SSD) ,
2 M.2 M-Key 2280 (PCIe x4, NVMe SSD) expansion slots
- 2 SATAIII, 4COM, 8 USB 3.2 and 3 USB 2.0
- Supports 4K/2K Resolution Display

Product Specification

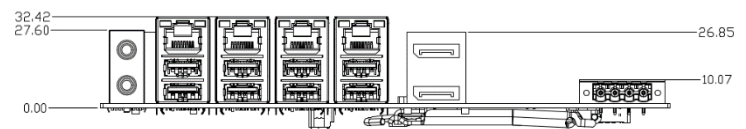
System Processor / Chipset	
Processor	Intel®15th Generation support Core™ Ultra-5/ Ultra-7/ Ultra-9 S-processor, TDP 35W to 65W
Chipset	Intel® Q870 platform
OS	AMI UEFI Flash ROM
Memory	
Technology	DDR5 SDRAM up to 5600MT/s
Max. capacity	Up to 64GB
Socket	2 x 262-pin SO-DIMM
Display	
Graphics	Intel® Xe (-U) LPG+ Graphics integrated
Display interface	2 x DP v2.1 Type-A ports for CPU(Rear I/O) 2 x DP v2.1 Type-A ports for MXM-3(Rear I/O) 1 x eDP v1.4b
Multi-display	Up to three independent displays
Resolution	DP/eDP : Up to 3840x2160 @ 60Hz(Max)
Ethernet	
Interface	10/100/1000/2500 Mbps
Controller	Intel® I226-LM 2.5GbE
Connector	4 x RJ45 LAN port (Rear I/O)
Audio	
Interface	Line-out, Mic-in (3.5mm Jack)
CODEC	Realtek ALC888S HD Audio Codec
Expansion Slot	
TPM	TPM2.0 (on board)
M.2	2 x M.2 M-Key 2280 (PCIe x4, NVMe SSD) 1 x M.2 B+M-Key 3042 (WWAN, w/ nSIM) / 2242 (SSD)
PCIe	1 x MXM-3 314pin PCIe
SATA	
Max. data transfer rate	6.0GB/s(SATAIII)
Port	2 x SATAIII port
I/O	
FAN	2 x CPUFAN 4-pin PWM
USB	8 x USB3.2 Gen.2 Type-A (Rear I/O) 3 x USB2.0
COM	2 x RS-232/422/485 2 x RS-232
DIO/GPIO	2x 8-bit GPIO
SMBus	1 x SMBus

Watchdog Timer	
Interval	Programmable 1~255sec/min
Output	System reset
Power Requirement	
Power connector	Terminal block 4-pin
Power type	DC-IN 19V~24V(@15A, 240W)
Power mode	-
Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative humidity	0%~95%(non-condensing)
Form Factor	
Dimensions (L x W)	170mmx203mm(6.69"x7.99")

Rear I/O



Dimensions



Ordering Information

Part Number	Description
AMD-X-ARL0-Q870-S000-A000	Mini-DTX, Intel 15th Gen.Q870,4DP,2SATA/4COM/10USB/4LAN/MXM,DC(19V~24V)/PHOENIX

*All specifications and photos are subject to change without prior notice