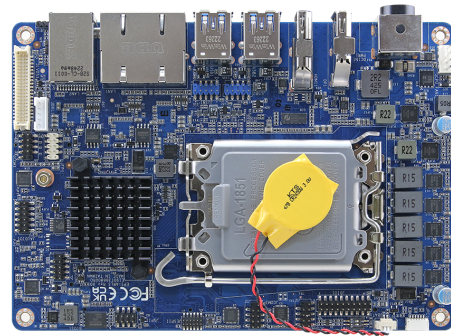


EPI-ARLS

Intel® Core™ Ultra Processors, EPIC Board
with Intel® Q870/H810 Chipsets



Product Features

- Top Layer Soldered Socket
- Intel® Q870/H810 chipsets
- Triple Display: 1 x DP, 1 x HDMI, 1 x 2CH LVDS or 1x eDP (Default LVDS)
- Dual 2.5G Gigabit Ethernet
- DC in +12V
- Intel® Core™ Ultra Processors supports LGA 1851 CPU Up to 35W Max
- Single DDR5 6400MHz SO-DIMM socket, support up to 48GB
- Expansion Slot: M.2 Key-E, M.2 Key-M
- 2 x RS-232/422/485, 2 x RS-232

Specification

System Information

Processor	LGA 1851 Socket Supports Intel® Core™ Ultra Processors (Max. TDP at 35W)
Platform Controller Hub	Intel® Q870/H810 Chipset
System Memory	1 x 262pin SO-DIMM Up to 48GB Dual Channel DDR5 5600/6400MHz (6400Mhz for Ultra 7, Ultra 9 CPU)
I/O Chipset	EC ITE IT5782VG
Watchdog Timer	H/W Reset, 5~255 Seconds/5~255 Minutes
BIOS	AMI BIOS, 256Mbit SPI Flash ROM
H/W Status Monitor	CPU & system temperature monitoring Voltages monitoring
TPM	Onboard NuvoTon NPCT760AABYX

Expansion

Expansion	1 x M.2 Key E 2230, support Wi-Fi module, support 1x PCIe x1 Gen 3, USB 2.0 1 x M.2 Key M 2280, support PCI-e x4 Gen 4 NVMe or SATA device 1 x M.2 Key M 2242, support PCI-e x4 Gen 4 NVMe or SATA device (for Q870 only)
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Storage

Storage	1 x M.2 Key M 2280, support PCI-e x4 Gen4 NVMe or SATA device
	1 x M.2 Key M 2242, support PCI-e x4 Gen4 NVMe or SATA device (for Q870 only)

Display

Graphic Chipset	Intel® Xe LPG graphics architecture CPU integrated
Spec. & Resolution	1 x DP 2.0: Max: 7680 x 4320@60 Hz 1 x HDMI 2.0 : 4096 x 2304@60 Hz 1 x LVDS: 1920 x 1080 Dual channel 18/24-bits LVDS (Chrontel CH7513A-BF eDP to LVDS) or 1 x eDP: 1920 x 1080@60Hz (2 Lanes), default LVDS
Multiple Display	Triple Display
LVDS	1 x LVDS: 1920 x 1080 Dual channel 18/24-bits LVDS (Chrontel CH7513A-BF eDP to LVDS)

Audio

Audio Codec	Realtek ALC888S HD Audio Decoding Controller
Audio Interface	Line-in, Mic-in, Line-out

Ethernet

LAN Chipset	1 x Intel® i226LM 2.5 Gigabit Controller 2 x Intel® i226V 2.5 Gigabit Controller (H810 only 1 x Intel® i226-V 2.5 Gigabit Controller)
Ethernet Interface	10/100/1000/2.5G Base-Tx GbE compatible
LAN Port	3 x RJ-45 (LAN3 for Q870 only)

Power Requirement

Power Mode	AT/ATX (Default Setting: AT)
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Software Support

OS	Windows 11, Linux
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Certification

Certification Information	CE, FCC, RoHS Compliant
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I/O

USB	4 x USB 3.2 Gen 2 at I/O for Q870 (2 x USB 3.2 Gen 2, 2 x USB 3.2 Gen 1 at I/O for H810) 4 x USB 2.0 ports by pin header
COM Port	2 x RS-232/RS422/485, 2 x RS-232
GPIO	1 x 16-bit GPIO

Mechanical & Environmental

Operating Temp.	0~60°C (32~140°F) w/HDD/SSD, ambient 0.5m/s air flow
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Storage Temp.	-40°C ~ 75°C (-40°F ~ 167°F)
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Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
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Weight	0.70lbs (0.3kg)
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Power Requirement	DC in +12V
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Dimension (L x W)	(6.5" x 4.5")165 x 115 mm
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Ordering Information

Ordering Information	EPI-ARLS-Q87-A1R EPIC board w/Q870/CPU socket/3LAN/3M.2/A1
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	EPI-ARLS-H81-A1R EPIC board w/H810/CPU socket/2LAN/2M.2/A1
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