



NEIMB-87AHS

ATX Industrial Motherboard

With Intel® Core™ Ultra 200 Series Processor / Intel Q870 Chipset

Features

Intel Core Ultra 200 Series Processor, LGA1851, TDP: 125W

4 x DDR5 5600 MHz U-DIMM (Non-ECC), up to 192GB

4 x SATA3 / 2 x M.2 Key M (PCIe5.0 x4 + PCIe4.0 x4 NVMe)

Triple Display: HDMI® 2.0 / DP++ 1.4 / VGA

8 x USB3.2 Gen2 + 2 x USB3.2 Gen1 + 3 x USB2.0

4 x 2.5G LAN (3 x i226-V / 1 x i226-LM w/ vPro)

2 x COM (RS232/422/485) / 4 x COM (RS232) / TPM2.0

Specifications

Processor	Intel Core Ultra 200 Processor, LGA1851, TDP: 125W
	Intel Q870 chipset
Memory	4 x DDR5 5600 MHz U-DIMM (Non-ECC), up to 192GB
GRAPHICS	Intel® Integrated Graphics, triple display: HDMI® 2.0 4096x2160@60Hz / DP++1.4 4096x2160@60Hz / VGA 1920x1200@60Hz
Storage	4 x SATA3
	2 x M.2 M Key 2242/2280 (PCIe5.0 x4 / PCIe4.0 x4 NVMe)
Board edge I/O interface	1 x COM Port , support RS-232/422/485
	1 x HDMI® 2.0 connector / 1 x DP++1.4 connector / 1 x VGA connector
	4 x RJ45 connector, support 2.5G (3 x i226-V / 1 x i226-LM w/ vPro)
	8 x USB3.2 Gen2 Type A connector
	3 x Audio jacks, support LINE-in/LINE-out/MIC-in
	2 x USB3.2 Gen1 (header) / 2 x USB2.0 (header) / 1 x USB2.0 Type A
Extended interface/function	1 x M.2 E Key 2230 support PCIe4.0 x1 + USB2.0
	2 x PCIe5.0 x16 (x16+NA or x8+x8)
	3 x PCIe4.0 x4 Slot (1xPCIe4.0 x4 share with M.2 M Key) / 1 x PCIe4.0 x1
Power supply	1 x 24-pin ATX power connector + 1 x 8-pin EPS12V CPU power connector
Working environment	Working temperature: 0°C ~ +60°C; Humidity: 5% ~ 90%
	Storage temperature: -40°C ~ +85°C; Storage humidity: 0% ~ 90% relative humidity, no condensation
Operating system	Windows 11 24H2, Ubuntu 24.04
Size	305 x 244 x 1.6 (mm) / ATX form factor
Weight	N/A

Dimension

305 x 244 x 1.6 (mm) / ATX