



NEIMB-STPAT

Pico-ITX Industrial Motherboard (148x102 mm)
Onboard Intel® Amston Lake / Alder Lake-N / Twin Lake / DC-IN 9~24V

Features

- Intel Atom x7433RE / Processor N97 / Processor N150 (Amston/Alder Lake-N/Twin Lake)
- 1 x DDR5 4800 MHz SO-DIMM, up to 16GB
- 1 x M.2 Key M (PCIe3.0 NVMe/SATA) / 1 x M.2 Key B (4G/5G) / 1 x SATA3
- Triple Display: LVDS/eDP / HDMI® 2.0 / DP++ 1.4
- 2 x USB3.2 Gen1 + 4 x USB2.0 / Hailo-8 AI 26 TOPS (opt)
- 2 x 2.5G LAN (Intel i226-V)
- 2 x COM (RS232/422/485) / 2 x COM (RS232) / Wide Temp -40°C~+85°C (opt)

Specifications

Processor	Intel Atom x7433RE / Processor N97 / Processor N150 (Amston/Alder Lake-N/Twin Lake)
	Onboard (SoC)
Memory	1 x DDR5 4800 MHz SO-DIMM, up to 16GB
GRAPHICS	Intel® Integrated Graphics, triple display: HDMI® 2.0 4096x2160@60Hz / DP++1.4 4096x2160@60Hz / LVDS/eDP 1920x1200@60Hz
Storage	1 x SATA3 connector
	1 x M.2 M Key 2242/2280 support PCIe3.0 x1/SATA (NVMe/SATA)
Board edge I/O interface	2 x COM connector, support RS-232/422/485 / 2 x COM RS-232 (internal)
	1 x HDMI® connector / 1 x DP++ connector / 1 x LVDS/eDP connector
	2 x RJ45 connector, support 2.5G (2 x Intel i226-V)
	ALC897 + ALC105, support 4Ω 2W amplifier (not support wide temp)
	2 x USB3.2 Gen1 Type A (rear) / 2 x USB2.0 Type A (rear) / 2 x USB2.0 (header)
Extended interface/function	1 x Mini PCIe support PCIe3.0 x1 + USB2.0 (WiFi/BT)
Power supply	DC-IN 9~24V (Phoenix connector)
Working environment	Working temperature: 0°C ~ +60°C; Humidity: 5% ~ 90%
	Storage temperature: -40°C ~ +85°C; (wide temp opt.)
	Storage humidity: 0% ~ 90% relative humidity, no condensation
Operating system	Windows 10/11 IoT Enterprise, Ubuntu 22.04
Size	148 x 102 x 1.6 (mm)
Weight	N/A

Dimension

148 x 102 x 1.6 (mm)