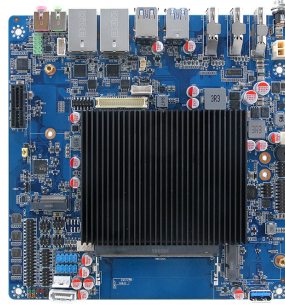


EMX-ASLP

Onboard BGA 12th Gen Intel® Processor N97 Processor, Thin Mini ITX Motherboard



Product Features

- Onboard BGA 12th Gen Intel® Processor N97 Processor
- DP++, HDMI, LVDS or eDP
- 2 x Intel® i226V
- 1 x M.2 Type B, 1 x M.2 Key E, 1 x M.2 Key M
- DC in +12V~24V
- 1 x 262-pin DDR5 4800 MHz SO-DIMM Socket, Supports Up to 16GB Max
- 1 x PCIe x1
- 2 x USB3.2 Gen2, 2 x USB3.2 Gen1, 2 x USB 2.0
- 6 x COM

Specification

System Information

Processor	Intel® N97 Processor
System Memory	1 x 262-Pin DDR5 4800MHz SO-DIMM Socket Supports Up to 16GB
I/O Chipset	EC ITE IT5571
Watchdog Timer	H/W Reset: 1Sec. ~ 65535Sec./Min. and 1 Sec. or 1Min./Step
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
H/W Status Monitor	CPU Temperature Monitoring Voltage Monitoring CPU Fan Speed Control
TPM	Onboard nuvoTon NPCT754AADYX support SPI TPM 2.0 (BOM option).
Board	Thin Mini ITX

Expansion

Expansion	1 x PCIe x1 1 x M.2 Type B Slot for 3042/3052/2242 Size with USB 3.1 GEN2, USB 2.0, SIM Slot for SSD/LTE/IO Cards Support WWAN+GNSS and SSD 1 x M.2 Key E 2230 Support CNVi WiFi Module (1 x PCIe x1 & USB 2.0 Signal) 1 x M.2 Key M 2242/2280 SSD Support PCIe x1
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Display

Graphic Chipset	Intel® UHD Integrated Graphics
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Spec. & Resolution	1 x DP++: 1920 x 1080@60 Hz (DP 1.4a: 4096 x 2160@60Hz) 1 x HDMI 2.0b: 4096 x 2160@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)
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Multiple Display	Triple Display
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LVDS	Dual Channel 18/24-bits LVDS (Chrontel CH7513A-BF eDP to LVDS) or 1 x eDP 1920 x 1080@60Hz (2 Lanes)
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Audio

Audio Codec	Realtek ALC888S HD Audio Decoding Controller
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Audio Interface	Mic-in, Line-out
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Audio Amplifier	2 x 2W 4Ω Amplifier
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Ethernet

LAN Chipset	2 x Intel® i226V 2.5 Gigabit Ethernet
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Ethernet Interface	100/1000/2500 Base-Tx GbE compatible Gigabit Ethernet
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LAN Port	2 x RJ-45
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Software Support

OS	Windows 10, Windows 11, Linux
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Certification

Certification Information	CE, FCC, RoHS Compliant
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I/O

USB	2 x USB 3.2 Gen2 2 x USB 3.2 Gen1 1 x USB 3.2 Gen1 Vertical Type A 4 x USB 2.0
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COM Port	4 x RS232 2 x RS232/422/485
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SIM Slot	Co-lay 1 x 10pin FPC Connector for SIM Card Adapter
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SATA	1 x SATA III 1 x SATA Power
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DIO	1 x 16-bit GPIO
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Mechanical & Environmental

Operating Temp.	0 ~ 60°C (32 ~ 140°F)with 0.5m/s air flow
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Storage Temp.	-40 ~ 75°C (-40 ~ 167°F)
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Operating Humidity	40°C at 95% relative humidity, non-condensing
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Weight	0.88lbs (0.4Kgs)
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Power Requirement	DC in +12V~24V
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Power Mode	AT/ATX (Default Setting: ATX)
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Dimension (L x W)	6.7" x 6.7" (170mm x 170mm)
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Ordering Information

EMX-ASLP-N97-A1R
Intel® N97 Processor Thin Mini ITX Motherboard
