MIX-ASLD1

Mini-ITX with Intel® Processor N-series

- DDR5 SODIMM x 1
- M.2 M-key
- SATAIII x 1
- USB 2.0 x 2
- DIO
- M.2 E-key
- M.2 B-key
- OOB Chip
- RJ45 x 1
- LAN x 1+POE x 1
- Software Reset Button x 1
- Nano Sim x 1
- LAN x 6
- USB3.2 x 1
- LED x 1
- DC Jack x 1

Features

- **Intel® Processor N-series (Next Generation Compatible)**
- **DDR5, 4800MHz, Max 16GB**
- **M.2 2280 M-Key x 1, M.2 2230 E-Key x 1, M.2 3042/52 B-Key x 1 with SIM socket**
- **USB 3.2 x 1, USB 2.0 x 4**
- **SATA 6Gb/s x 1**
- **PoE x 1, 1GbE LAN x 7**
- **Console Port x 1**
- **12V DC-in power**
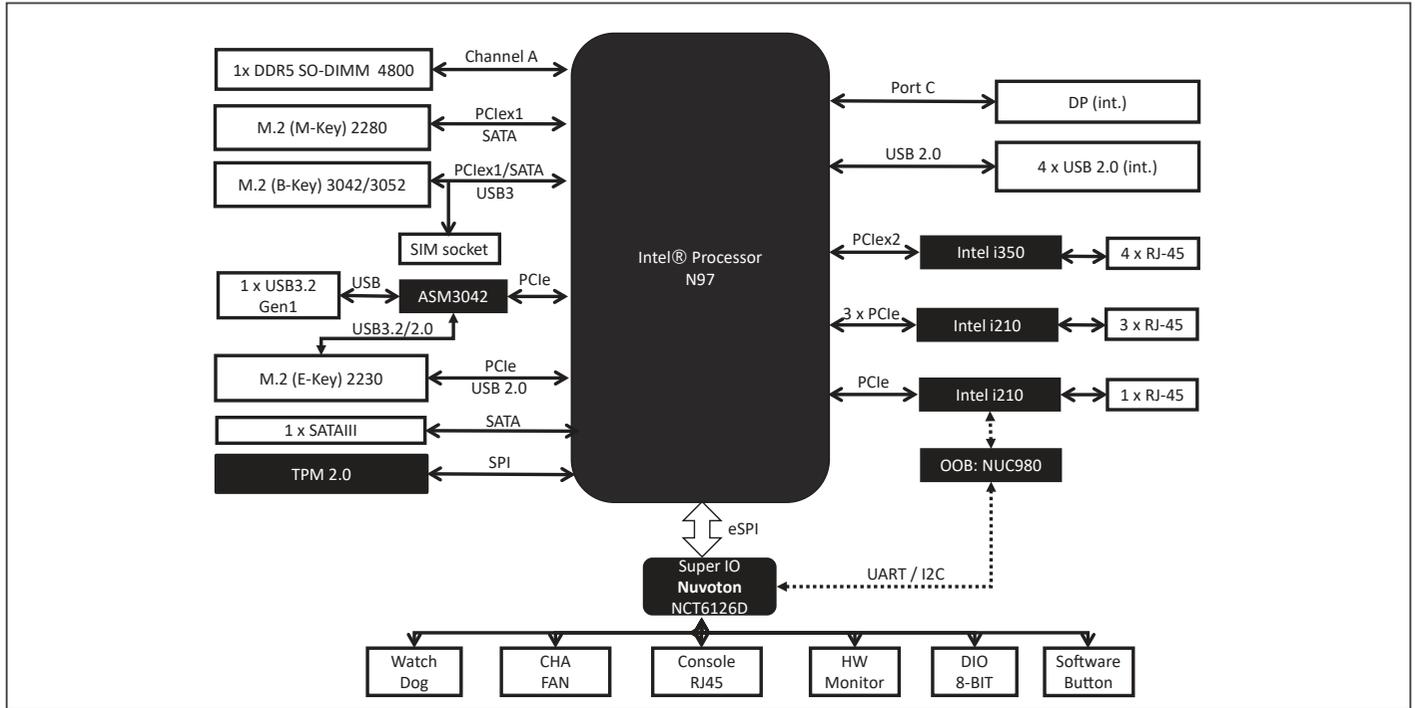- **Software Reset Button x 1**
- **OOB Support (Onboard)**
- **DPDK Support**

1000 Giga LAN | HDMI | USB 3.2 Gen 2 | USB 2.0 | CE | FC

Specifications

System	
Processor	Intel® Processor N97, 4C, TDP: 12W
Chipset	—
Memory	DDR5 4800MHz SODIMM x 1, Max 16GB (Non-ECC, Un-buffered memory)
I/O Chipset	Nuvoton NCT6126D
Ethernet	PoE x 1 (Intel® Ethernet Controller I210-AT) 1GbE LAN x 7 (LAN Controller: Intel® Ethernet Controller I350-AM4 x 1 + Intel® Ethernet Controller I210-AT x 3)
Audio	—
TPM	Onboard TPM 2.0 (Infineon SLB9672)
Expansion Slots	M.2 3042/3052 B-Key x 1 (PCIe 3.0 x1, USB 3.2) for 5G/LTE M.2 2230 E-Key x 1 (PCIe 3.0 x1, USB 2.0, CNVi) for WiFi/Bluetooth Nano SIM Card x 1 (B-Key, push type)
BIOS	256Mbit Flash ROM, AMI BIOS, UEFI
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on Chassis
WatchDog Timer	1~255 stepss by software program
Smart Fan Control	Chassis Fan
Wake On LAN/ PXE	Yes (WOL with i210 ports/PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Integrated Graphics
Graphics Multi Display	—
VGA	—
DVI	—
HDMI	—
Display Port	Up to 3840 x 2160 @60/30Hz (internal)
LVDS	—
eDP	—
Backlight Control	—
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	DC 12V Power consumption: 80W
Operating Temperature	32°F ~ 140°F (0 ~ 60°C) (Operational humidity: 60°C @90% RH Non-Condensing)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Certificate	CE & FCC (Class A)
Form Factor	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)
Weight	1.1 lb (0.5Kg)

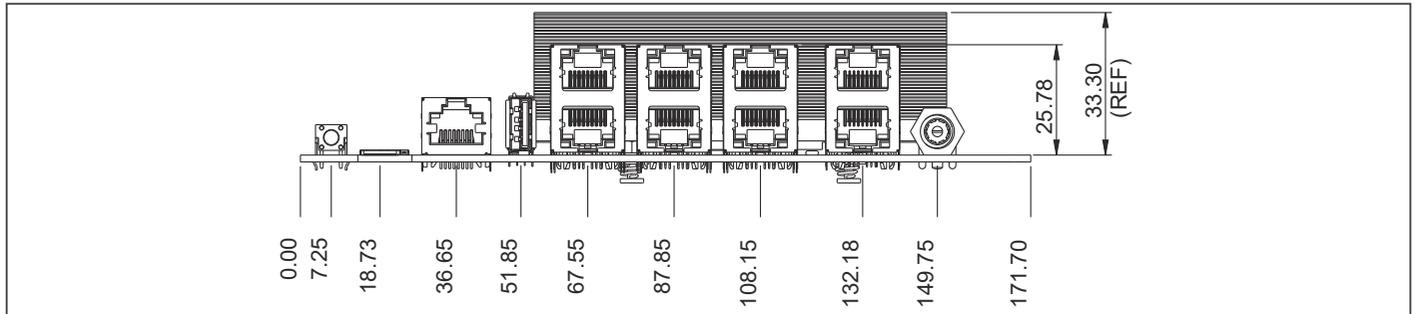| MTBF (Hours)	—
Rear Panel I/O Ports	
USB	USB 3.2 Gen 1 x 1 (Vertical)
Display I/O	—
Audio I/O	—
LAN I/O	PoE x 1 (Type 1 IEEE 802.3AT, 30W x 1, for 1G PoE/PSE) RJ-45 LAN x 7 (1G)
Serial Port	—
PS/2 Port	—
Others	Nano SIM Slot x 1, Software Reset Button x 1, Console Port x 1, DC Jack x1
Internal I/O Connectors	
Storage	SATA 6Gb/s x 1 M.2 2280 M-Key slot x 1 (Auto Detect, PCIe [x1] & SATA Mode)
USB	USB 2.0 x 2 (2.54mm pitch, 2x5-pin Header) support for 4 USB 2.0 ports
Display I/O	—
Audio I/O	—
Serial Port	—
PS/2 Port	—
Parallel Port	—
DIO	8-bit Digital I/O interface x 1 (In/Out programmable)
FAN	Chassis Fan connectors (4-pin) x 1
Power	—
Others	Chassis Intrusion x 1 AT/ATX Mode Select Jumper x 1 Front Panel Header x 1 Clear CMOS Jumper x 1 Buzzer Onboard x 1 1x3-pin ME Lock Header OOB Chip Onboard x 1 (by BOM optional) DP Connector x 1 (Vertical) (by BOM optional) 1x5-pin I2C Header (Reserve) 1x5-pin SMBus Header
OS	
OS Support	Windows® 10 64-bit, Windows® 11 64-bit, Linux Ubuntu 22.04

Packing List

- **MIX-ASLD1**
- **I/O Shield**
- **SATA Cable**
- **SATA Power Cable**

Note: All specifications are subject to change without notice.

Block Diagram

Dimension

Unit: mm

Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Display	LVDS/eDP	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	TPM	Temp.
MIX-ASLD1-A10-N97	Intel® Processor N97	SODIMM x 1	Fanless	—	—	SATA 6Gb/s x 1 M.2 M-Key x 1	PoE x 1 1GbE LAN x 7	USB 2.0 x 4 USB 3.2 x 1	—	—	M.2 B-Key x 1 M.2 E-Key x 1 Nano SIM Slot x 1	DC 12V	2.0	0˚C ~60˚C

Optional Accessories

Part Number	Description
1700091805	Console Cable.RJ45 8P(F).to D-SUB 9P(F).180cm