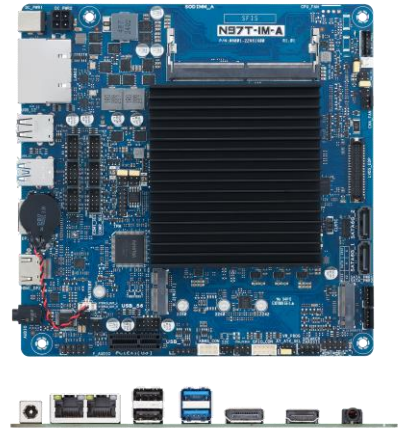


N97T-IM-A

Thin mini ITX, Intel® N97 SoC onboard Processors (ADL-N platform), 1* SO-DIMM.
1*PCIe x1, HDMI, DP, LVDS, Dual LAN, M.2 slot

Features

- One SO-DIMM up to 16GB DDR5 4800 MHz.
- Intel Gen 12 UHD Graphics, up to 4K/60 hz
- Supports 3 display configuration by multiple interface: HDMI/DP/LVDS/eDP(optional)
- 7-year longevity supply
- Wide Temperature Range: 0~60°C



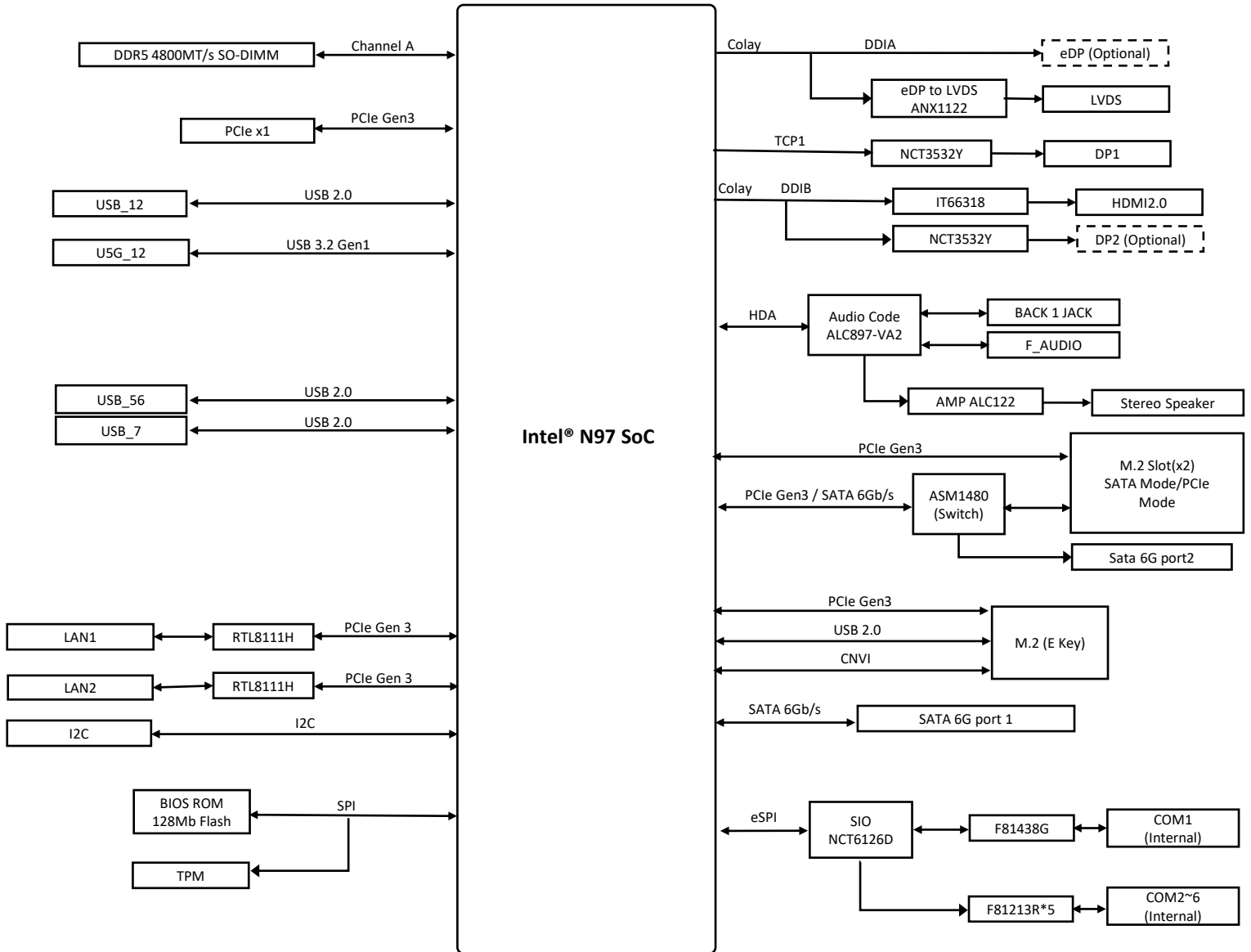
Specifications

Processor System	CPU	Intel® Processor N97
	Cores	4
	TDP	12W
	Base Frequency	2.0 GHz
	Max. Turbo Frequency	3.6 GHz
Memory	Technology	DDR5 4800 MT/s, In-Band ECC (IBECC)
	Max.	16 GB
	Socket	1 x SO-DIMM
Display	Controller	Intel Gen 12 UHD Graphics
	HDMI	1, Supports HDMI 2.0 up to 4K x 2K @ 60 Hz (Default)
	DP++1	1, Supports DP++ 1.2, up to 4096x2160 @ 60Hz (Default)
	DP++2(optional by request)	1, Supports DP++ 1.4, up to 4096x2160 @ 60Hz (colay with HDMI)
	LVDS	1, Supports up to 1920x1200 @ 60Hz (Default)
	eDP(optional by request)	1, Supports up to 4096x2160 @ 60Hz (colay with LVDS)
Expansion Slot	Triple Displays	HDMI+ DP+ LVDS, HDMI(Default)+ DP+ eDP, DP+ DP+ LVDS, DP+ DP+ eDP
	PCIe 3.0/2.0 x1	1
Ethernet	M.2	1 x E key, type 2230 for WIFI/BT device (PCIE x1 & USB2.0 & CNVI) 1 x M key, type 2242/2260/2280 (PCIE x2/ SATA mode) supports NVMe
	Speed	10/100/1000 Mbps
	Controller	2 x Realtek RTL8111H (Support WOL/PXE)
Audio	Connector	2 x RJ-45
	Codec	Realtek ALC897
Storage	Connector	Default Line-out, switch to line-in by retasking
	SATA port	2 x SATA Gen 3.0, Up to 6Gb/s * If an M.2 SSD in SATA mode is installed in the M.2 M key slot, SATA port 2 will be disabled.
Rear I/O	HDMI	1, Supports HDMI 2.0 up to 4K x 2K @ 60 Hz (Default)
	DP++	1, Supports DP++ 1.2, up to 4096x2160 @ 60Hz (Default)
	USB	2*USB3.2 Gen1 + 2*USB 2.0
	Ethernet	2
	Audio jack	1
	DC 9V-36V Power Input	1
Internal I/O Connectors	Serial Port	6 • COM1 supports RS232/422/485: Ring/5V/12V Select, switch by jumper • COM2 supports RS232: Ring/5V/12V select, switch by jumper • COM3~6 supports RS232
	USB Header	1 (support additional 2 x USB2.0 ports) 1 (support additional 1 x USB2.0 ports)
	Chassis Fan	1 (PWM)
	Front Panel Audio Header (AAFP)	1
	Front panel as Power/Reset/HDD (F_Panel)	1 (10-1 pin)
	Chassis Intrusion	1
	Speaker	1 (4 pin)
	Stereo Out	2 (2-pin, 3 watt/channel amplifier)
	Clear CMOS	1
	COM Debug Header	1 (6 pin)
	GPIO	1 (8 bit)

Specifications

Internal I/O Connectors	LVDS Signal Header	1 (support dual channel stand type, 40 pin)
	LCD Panel Monitor Switch Header	1 (2 pin)
	LVDS Panel VCC Power Selection Jumper	1 (6 pin)
	LVDS Panel Backlight Enable Signal Selection	1 (3 pin)
	LVDS Backlight Panel Header	1 (5 pin)
	PS/2	1 (2 x 4 pin)
	I2C Header	1 x Header
	Power in Connector	1 (4-pin ATX power connector, DC in mode)
Watchdog Timer	H/W	Yes
Security	TPM	1 x SPI TPM header
Power	Power Type	9V-36V DC-in (1x external DC jack; 1 x internal 4-pin power connector)
OS & Software Support	Microsoft Windows	Windows® 10 (64-bit) / Windows® IoT enterprise
	Linux	Ubuntu, RedHat Enterprise, OpenSUSE
	ASUS IoT Suite	<input checked="" type="checkbox"/> HW Monitor <input checked="" type="checkbox"/> Power Scheduling <input checked="" type="checkbox"/> Fan Control <input checked="" type="checkbox"/> Watch Dog Timer <input checked="" type="checkbox"/> GPIO
	User Interface	<input checked="" type="checkbox"/> API <input checked="" type="checkbox"/> GUI
Environment	Operating Temperature	0 ~ 60°C
	Non-Operating Temperature	-40 ~ 85°C
	Relative Humidity	Operational humidity: 40°C@10%~95%
Mechanical	Dimensions	Thin Mini-ITX, 170 x 170 mm
Certification	EMC	CE, FCC, VCCI, BSMI, RCM
	Safety	CE-LVD

Block Diagram



Order Information

Model name	Part number	Description
N97T-IM-A	90ME08Y*	BGA1264,N97,HDMI,DP,LVDS,MB

* The part number might vary for different regulations and package. Please consult the TPM in your region for exact 90PN.

Packing List

Part number	Description	Quantity
13020*	IO shield	2
14013*	SATA 6G CABLE	1
14013*	SATA Power Cable	1
14017*	SATA Power Cable	1
13020*	M.2 SCREW PACK	2

* The part number might vary due to part number revision.