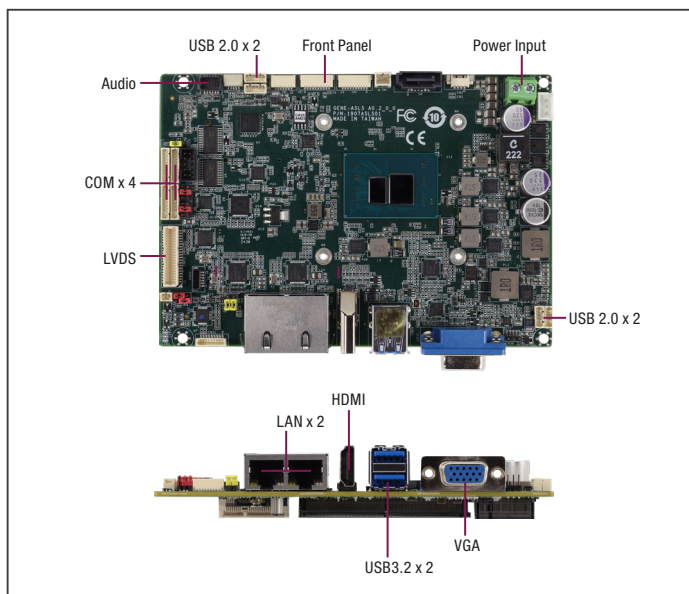




GENE-ADN5

3.5" SubCompact Board with Intel® Processor N Series



Features

- DDR5 4800 MHz, Dual Channel SODIMM x 1, Up to 16GB
- LVDS Dual Channel 18/24 bit x 1, VGA x 1, HDMI x 1
- Intel® 2.5GbE x 2, SATA 6Gb/s x 1, GPIO x 8bit
- USB 3.2 Gen 2 x 2 port, USB 2.0 x 4
- Full size mPCIe/mSATA
- M.2 3052 B-Key x 1, M.2 2230 E-Key x 1
- DC Input 9-36V



2.5Giga LAN



DDR 5



Audio



LVDS



USB 3.2 Gen 2



HDMI



CE



FCC

Specifications

System	
Form Factor	3.5" SubCompact Board
CPU	Intel® Processor N-series: Intel® Core™ i3-N305 (8C/8T, 3.8 GHz, 15W) Intel® Processor N97 (4C/4T, 3.6 GHz, 12W)
Chipset	Integrated with Intel® SoC
Memory Type	DDR5 4800, Single Channel SODIMM x 1, Max.16GB, Non-ECC
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Security	TPM 2.0
RTC Battery	Lithium Battery 3V/240mAH
Dimensions	5.75" x 4" (146mm x 101.7mm), 1.1 lb. (0.5Kg)
OS Support	Windows 10 (64bit), Windows 11 (64bit), Ubuntu 22.04 / Kernel 5.15.0-25-generic
Power	
Power Requirement	+9V~36V (Optional: +12V), support ERP
Power Supply Type	AT/ATX, support 3pin ATX
Connector	Phoenix 2-pin Connector (Colay 4 pin connector)
Power Consumption	Intel Atom® Core™ i3-N305, DDR5 16GB x 1, 4.05A @+12V (Typical) Intel Atom® Core™ i3-N305, DDR5 16GB x 1, 5.05A@+12V (Max)
Display	
Controller	Intel® UHD Graphics
LVDS/eDP	LVDS x 1, Dual-Channel 18/24-bit, up to 1920 x 1080 eDP HBR3 x 1, up to 1920 x 1200 (Optional)
Display Interface	HDMI 1.4 x 1, up to 3840 x 2160 @30Hz VGA x 1, up to 1920 x 1080
Multiple Display	Up to 3 Simultaneous Displays
Audio	
Codec	Realtek ALC897
Audio Interface	Line-In / Line-Out / Mic, (Audio function not available for WITAS SKU)
Speaker	—
External I/O	
Ethernet	Intel® Ethernet Controller I226, 2.5GbE x 2
USB	USB 3.2 Gen 2 x 2 port
Serial Port	—
Video	HDMI 1.4 x 1, VGA x 1
Internal I/O	
USB	USB 2.0 x 4
Serial Port	COM 1, COM 2 (RS-232/422/485, supports 5V/12V/RI) COM 3, COM 4 (RS-232)

Video	LVDS x 1 eDP x 1 Inverter x 1 (12V/2A)
SATA	SATA 6.0 Gb/s x 1 +5V SATA Power Connector x 1
Audio	Audio Header x 1 (Audio function not available for WITAS SKU)
DIO/GPIO	GPIO 8-bit
SMBus/I2C	SMBus / I2C x 1 (Default: SMBus)
Touch	4/5/8 wire Touch Controller x 1
Fan	4pins Smart Fan x 1
Sim	Nano SIM x 1
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
Expansion	
Mini PCIe/mSATA	Full-size mSATA / mPCIe x 1 (Default: mPCIe, select by BIOS)
M.2	M.2 3052 B-Key x 1 (PCIe 3.0 [x1] + USB 3.2 Gen 2/PCIe 3.0 [x2] + USB 2.0, default: PCIe [x1] + USB 3.2 Gen 2, selected by BIOS) M.2 2230 E-Key x 1 (PCIe 3.0 [x1] + USB 2.0, support CNVi)
Others	—
Environment & Certification	
Operating Temp.	32°F ~ 140°F (0°C ~ 60°C) or -4°F ~ 158°F (-20°C ~ 70°C)
Storage Temp.	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	1,284,701
EMC	CE/FCC Class A

Packing List

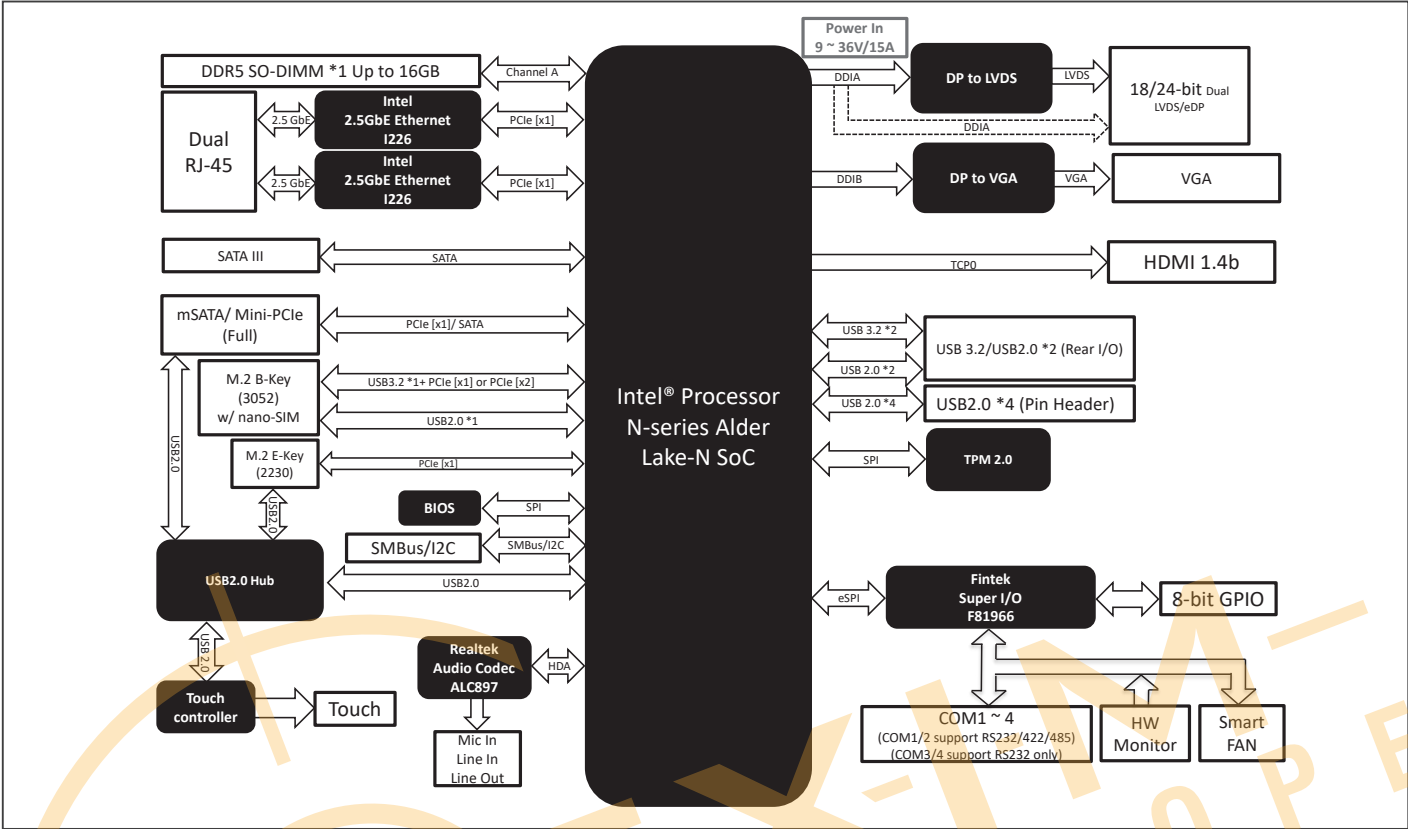
Part Number	Description	QTY
GENE-ADN5	GENE-ADN5 MB	1
M16BT07020	Heat Sink	1

Optional Accessories

Part Number	Description	QTY
1702150155	SATA HDD Power Cable, 15cm	1
170204010R	Power Cable.Double 4P , 10cm	1
170X000398	Power Cable, DC JACK, 30cm	1
170X000287	Front Panel Cable , 10cm	1
170X000156	Audio Cable, 25cm	1
1700050207	USB 2.0 Cable, 20cm	4
1701090150	COM Port Cable, 15cm	4
170220020B	ATX Power Cable, 20cm	1

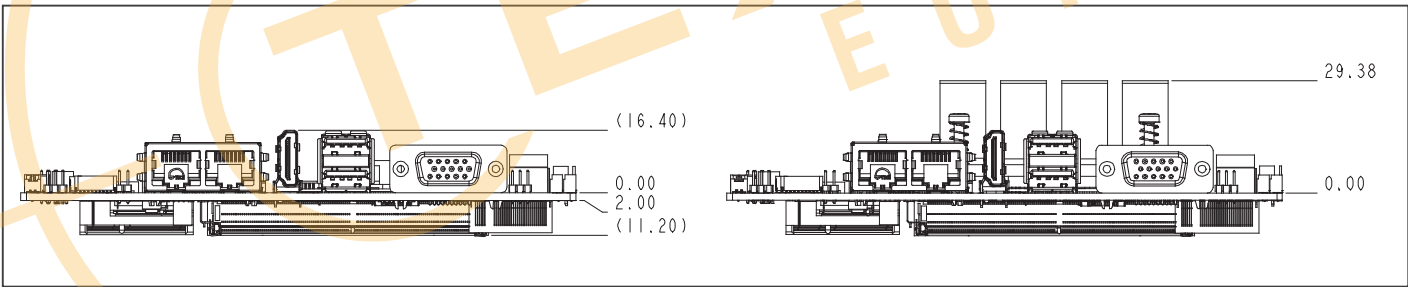


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Display	LAN	USB	Audio	COM	Storage	Expansion Slot	TPM	Power	Temp	Others
GENE-ADN5-A10-0001	Intel® Processor N97	VGA x 1 HDMI x 1 LVDS x 1	2.5GbE x 2	USB 3.2 Gen 2 x 2 USB 2.0 x 4	Line-in/Line-out/MIC	4	SATA x 1	M.2 B-Key 3052 x 1 M.2 E-Key 2230 x 1 MiniCard x 1	2.0	9~36V	-20°C ~ 70°C	GPIO x 8, Touch Controller, SMBUS
GENE-ADN5-A10-0002	Intel® Core™ i3-N305	VGA x 1 HDMI x 1 LVDS x 1	2.5GbE x 2	USB 3.2 Gen 2 x 2 USB 2.0 x 4	Line-in/Line-out/MIC	4	SATA x 1	M.2 B-Key 3052 x 1 M.2 E-Key 2230 x 1 MiniCard x 1	2.0	9~36V	0°C ~ 60°C	GPIO x 8, Touch Controller, SMBUS

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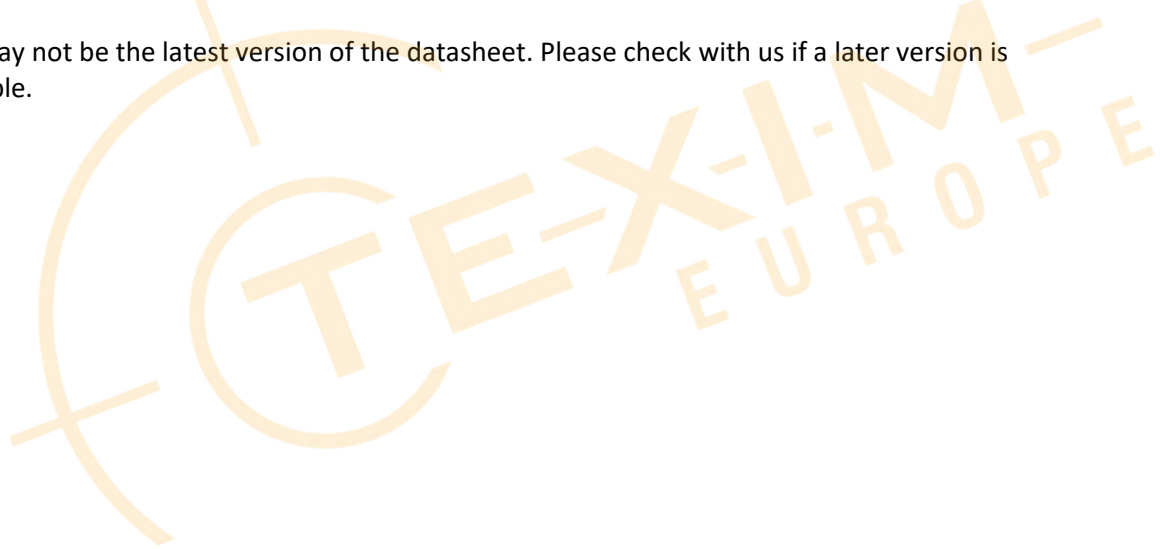
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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