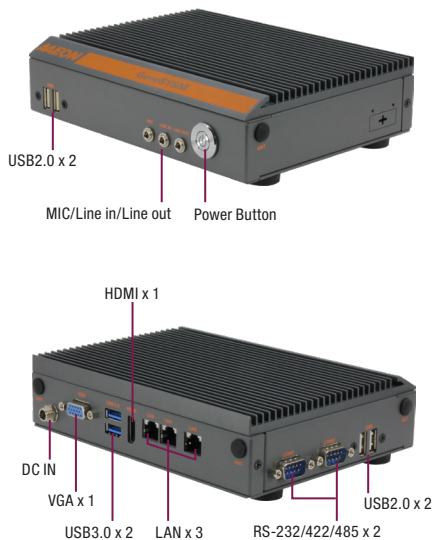


GENESYSM-ADN6

GENE System with Intel Atom® x7000E Series, Intel® Processor N Series, Intel® Core™ i3-N305 Processors



Specifications

System	
Form Factor	3.5" SubCompact Board System
CPU	Intel® Processor N Series, Intel® Core™ i3-N305 Processors: Intel® Core™ i3-N305 (8C/8T, up to 3.8 GHz, 15W) Intel® Processor N97 (4C/4T, up to 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 (Optional)
RTC Battery	Lithium Battery 3V/240mAh
Dimensions	7.00" x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
OS Support	Windows 10 (64bit) Ubuntu 22.04 / Kernel 5.15.0-25-generic
Power	
Power Requirement	+9-36V
Power Supply Type	ATX
Connector	DC Jack Connector
Power Consumption	Intel® Core™ i3-N305, DDR5 16GB x 1, 3.4A @+12V(Typical) Intel® Core™ i3-N305, DDR5 16GB x 1, 5.24A @+12V(Max)
Display	
Controller	Intel® UHD Graphics
LVDS/eDP	—
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 2 Simultaneous Displays
Audio	
Codec	Realtek ALC897
Audio Interface	Line-In/Line-Out/MIC
Speaker	—
External I/O	
Ethernet	Intel® i226 2.5Gb, RJ-45 x 3
USB	USB3.2 Gen 2 x 2 ports USB2.0 x 4
Serial Port	COM1, COM2 (RS232/422/485, supports 5V/12V/RI) COM3, COM4 (RS-232 x 2, optional)
Video	HDMI 1.4 x 1, VGA x 1

Features

- Intel® N series, and Intel® Core™ i3-N305 Processors
- DDR5 4800 MHz, SODIMM x 1, Up to 16GB
- HDMI 1.4, VGA
- Intel 2.5GbE x 3, SATA 6.0 Gb/s x 1, GPIO x 8bit
- USB3.2 Gen2 x 2 ports, USB2.0 x 4, RS-232/422/485 x 2
- Mini PCIe card x 1, M.2 E-Key 2230 x 1, M.2 B-Key 3052 x 1
- Wide DC Input 9-36V



Internal I/O	
USB	—
Serial Port	—
Video	—
SATA	SATA 6.0 Gb/s x 1 +5V SATA Power Connector x 1
Audio	Audio Header x 1
DIO/GPIO	GPIO 8-bit
SMBus/I2C	SMBus/I2C x1 (Default: SMBus)
Touch	—
Fan	—
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: mSATA, select by BIOS)
M.2	M.2 2230 E-Key x 1 (PCIe 3.0 [x1] + USB2.0) M.2 3052 B-Key x 1 (USB3.2 Gen2 + USB2.0)
Others	—
Environment & Certification	
Operating Temp.	14°F ~ 140°F (-10°C ~ 60°C) 0.5m/s air flow
Storage Temp.	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	337,963
EMC	CE/FCC Class A

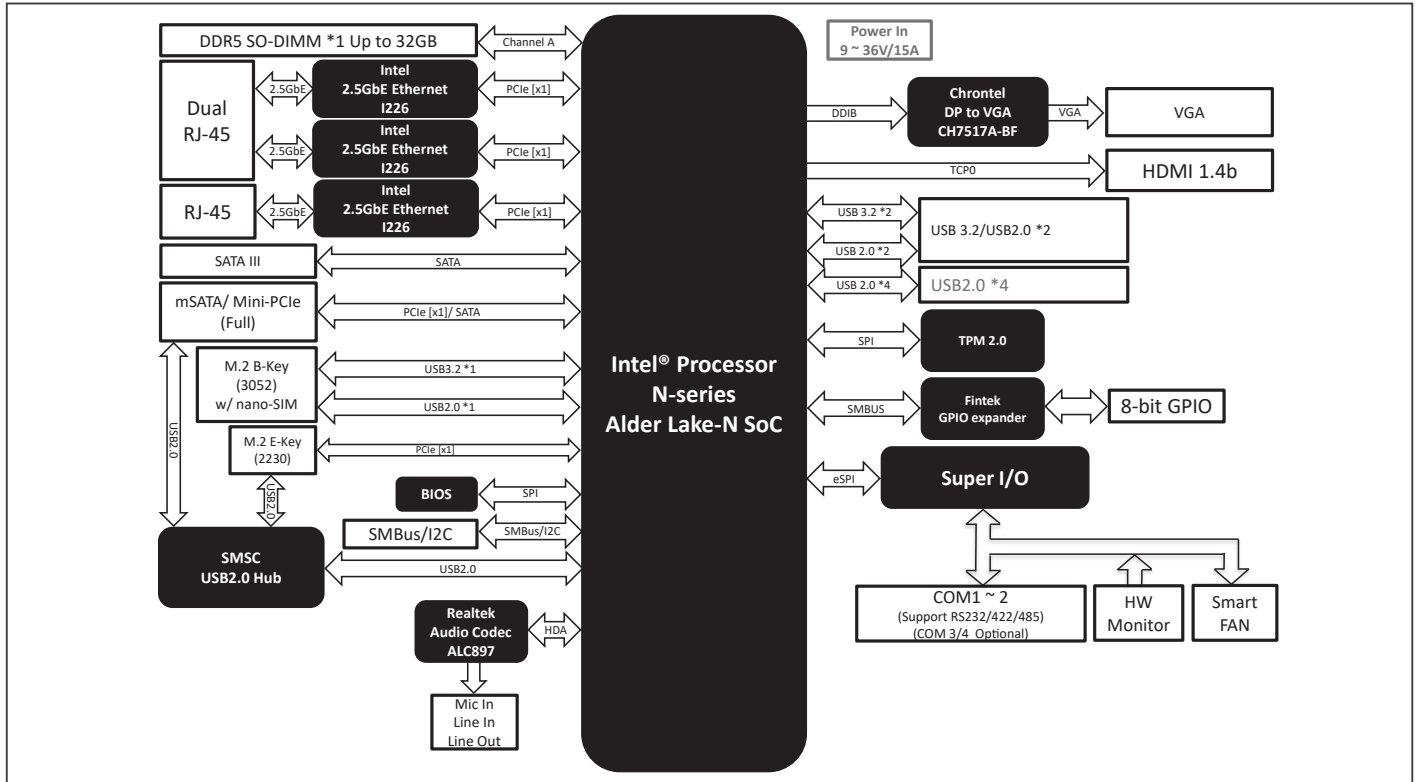
Packing List

Part Number	Description	QTY
GENESYSM-ADN6	GENESYSM-ADN6 System	1

Optional Accessories

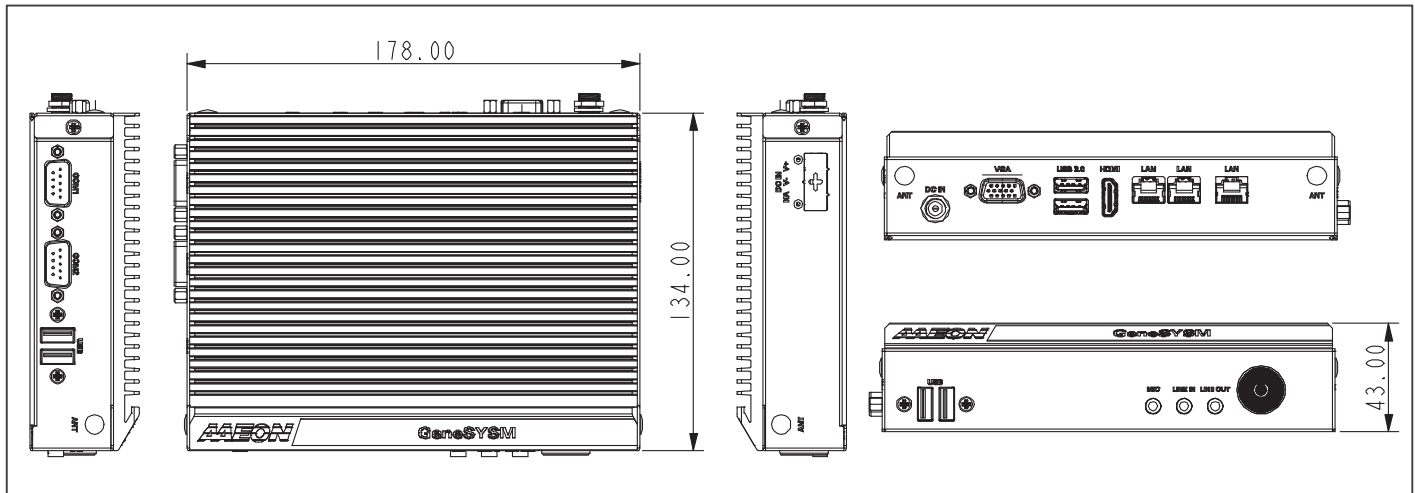
Part Number	Description	QTY
1702031802	Power Cord (US Type)	1
1702031803	Power Cord (Europe Type)	1
170203180E	Power Cord (Japan)	1
1255300960	Power Adapter 12V/8A 96W W/lock.FSP096-AHAN3/9NA0961403	1
1255X00063	Power Adapter 12V/12.5A 150W w/Lock 180D.DELTA.DPS-150AB-15 J	1
GENESYSM-ALL-VESA1	VESA Mount Kit.For GENESYSM series	1
GENESYSM-ALL-WMT1	Wall Mount Kit.For GENESYSM series	1
GENESYSM-ADN6-DIN1	Din Rail Kit. For GENESYSM-ADN6	1

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/Fanless	Display	Storage	LAN	USB	RS-232/422/485	Expansion slot	TPM	Power	Operating Temp	Others
GENESYSM-ADN6-A10-P001	N97	Fanless	HDMI x 1 VGA x 1	SATA x 1	2.5GbE x 3	USB 3.2 Gen 2 x 2 USB 2.0 x 4	2	M.2 3052 B-Key x 1 M.2 2230 E-Key x 1 MiniCard x 1	2.0	9~36V	-10~60°C	Audio, Nano SIM, GPIO x 8, SMBUS
GENESYSM-ADN6-A10-P002	i3-N305	Fanless	HDMI x 1 VGA x 1	SATA x 1	2.5GbE x 3	USB 3.2 Gen 2 x 2 USB 2.0 x 4	2	M.2 3052 B-Key x 1 M.2 2230 E-Key x 1 MiniCard x 1	2.0	9~36V	-10~60°C	Audio, Nano SIM, GPIO x 8, SMBUS