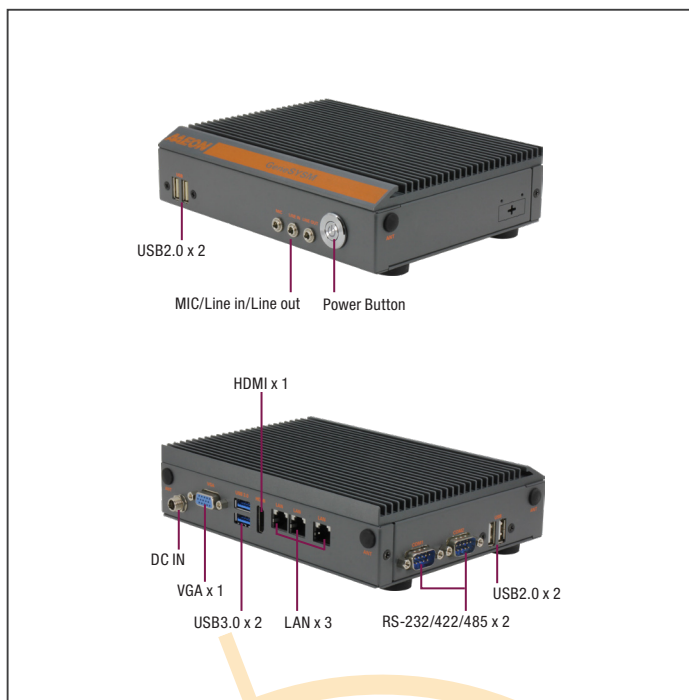


GENESYSM-ADN6

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



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 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

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 x1080
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 2.5G, 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

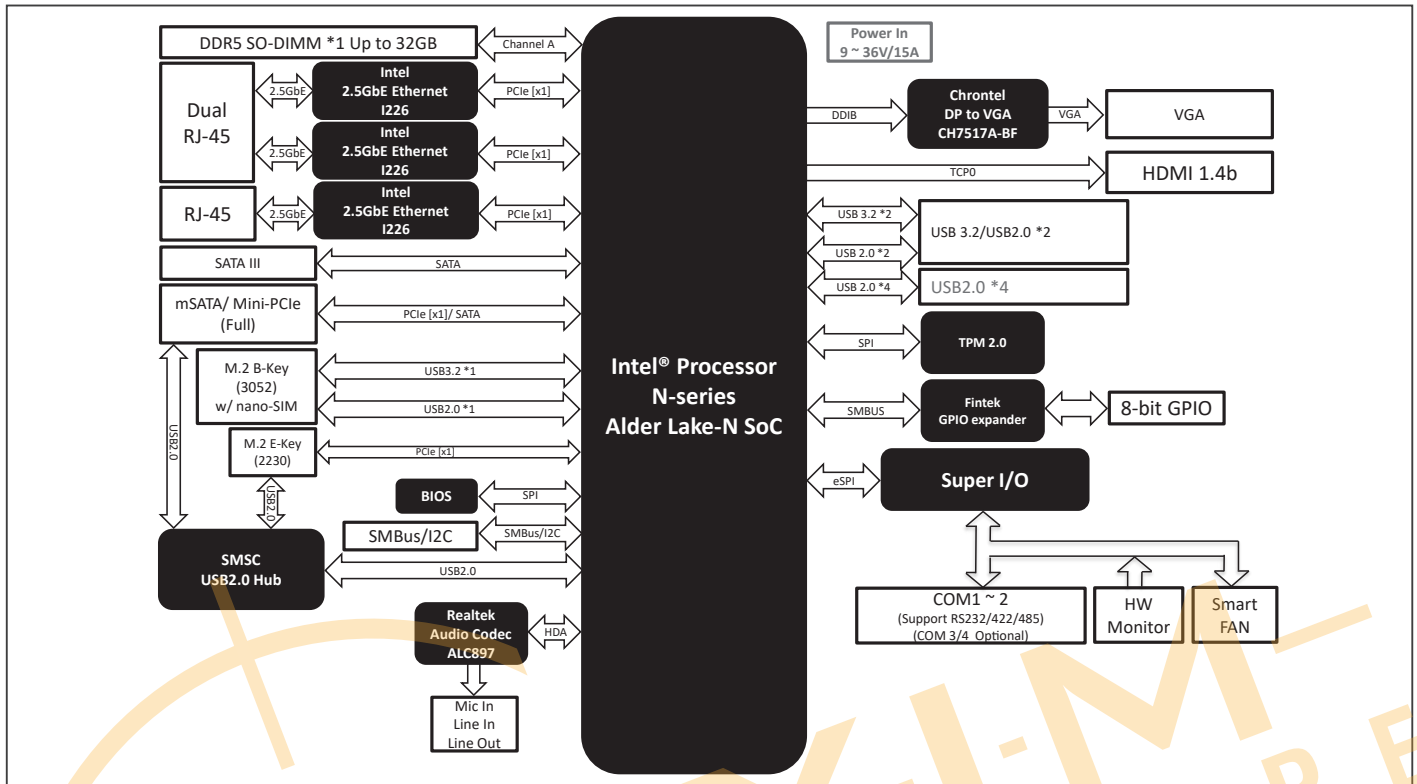
Packing List

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

Optional Accessories

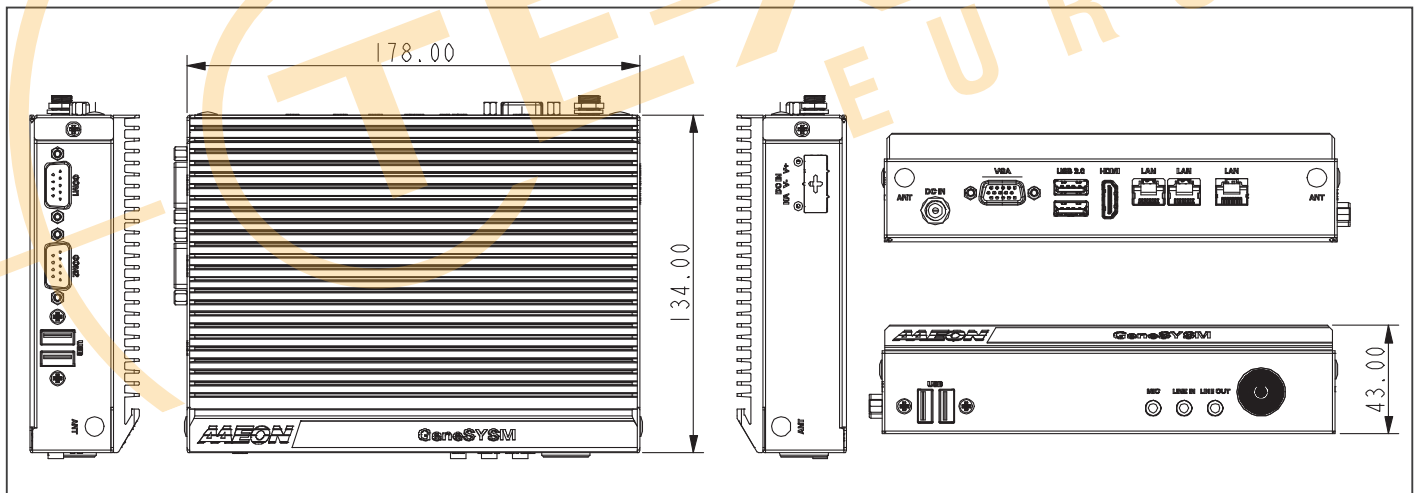
Part Number	Description	QTY
1702031802	Power Cord (US Type)	1
1702031803	Power Cord (Europe Type)	1
170203180E	Power Cord (Japan)	1
1255300960	Power Adapter 12V/8A 96W W/lock.FSP096-AHAN3/9NA0961403	1
1255X00063	Power Adapter 12V/12.5A 150W w/Lock 180D.DELTA.DPS-150AB-15 J	1
GENESYSM-ALL-VESA1	VESA Mount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

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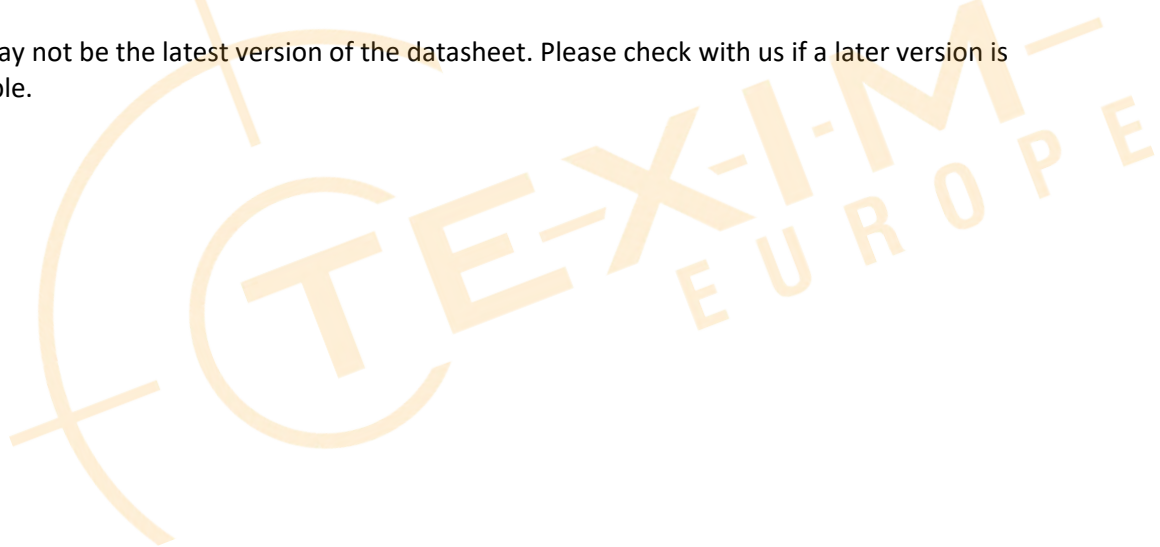
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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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