

GENESYS-APL7

3.5" GENE Board

Engineering Specification

Rev. A10
2019/02/19

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Preliminary Specification, AAEON reserves the right to change this specification without notice.

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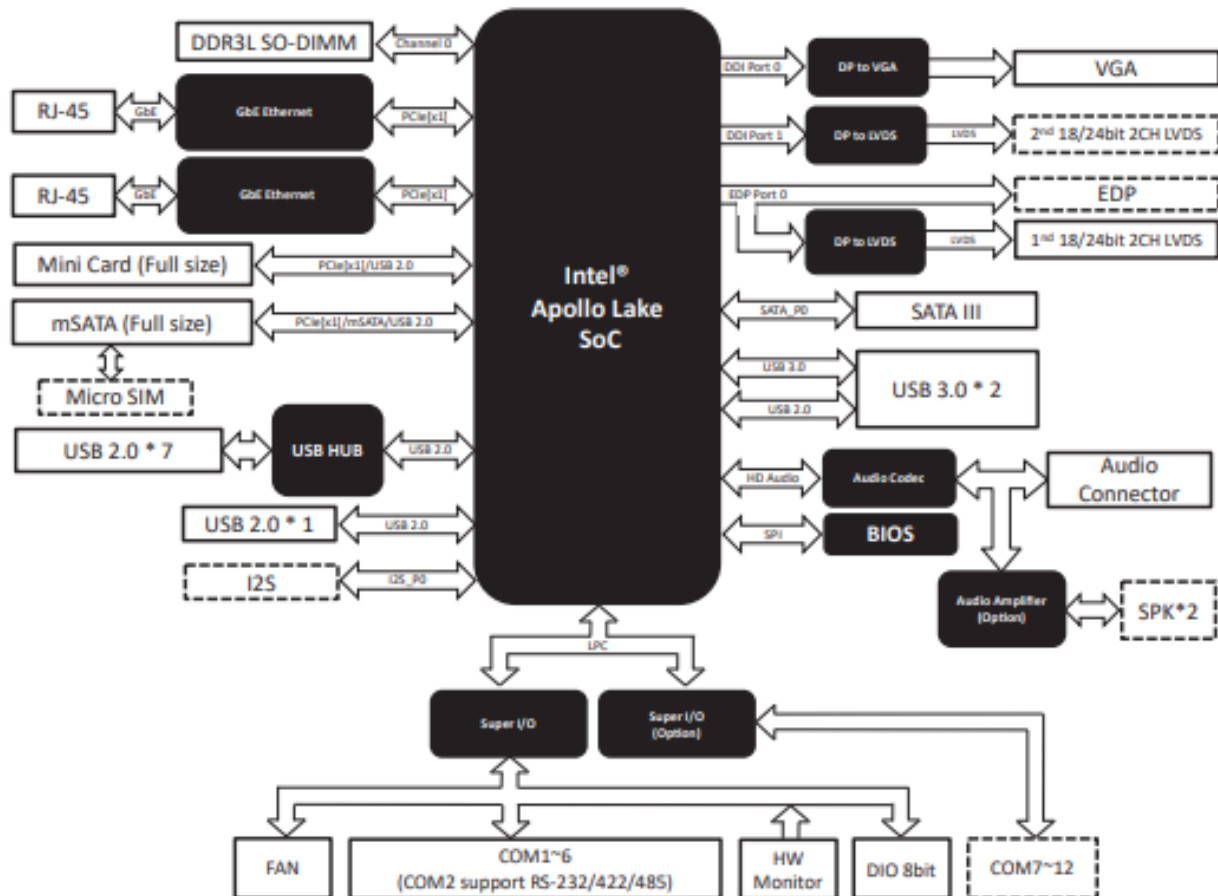
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Revision History

Rev	Brief Description of Changes	Date of Issue	Author(s)
A1.0	Final spec	2019/02/19	Alan Lan

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1. Block Diagram



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2. SPECIFICATIONS

Engineering Specification		
Product Name		GENE-APL7
System		
Form Factor	Size	3.5" SubCompact Board
Processor	Type	Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
System Memory	Type & cap.	DDR4 1866MHz SODIMM x 1,Max up to 8GB.
Chipset	Type	Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
I/O Chips	Type	Fintek F81866
Ethernet	Controller	2 x 10/100/1000M Realtek RTL-8111E Ethernet
Wake on LAN		Yes
BIOS	Interface	SPI
	Capacitor	AMI BIOS – 128M bit ROM
Watchdog Timer	Chipset	Fintek F81866
	Function	255 levels
RTC	Chipset	Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
H/W Status Monitor	Chipset	Fintek F81866
	Function	VIN1=Vcore / Vin2 = DDR
Expansion Interface		1 x Full Size Mini Card 1 x Full Size Mini Card (colay mSATA)
Battery		Lithium battery
Power Supply Request		+12V DC, AT or ATX
Power Consumption		N4200 @ DDR4 8GB, 12V@1.61A
Unit Size		7"x5.1"x1.7" (178mmx 129mmx 43mm) for passive cooler
Gross Weight		-
Operating Temp		32°F ~ 122°F (0°C ~ 50°C)
Storage Temp.		-40°F ~ 176°F (-40°C ~ 80°C)
Humidity		0%~90% relative humidity, non-condensing

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MTBF		TBD
Chipset		Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
Memory		
I/O		
Solid Storage Disk interface		1 x Half Size Mini Card for mSATA 1 x 2.5" HDD Bay
Display		1 x VGA
Ethernet		2 x RJ45
Serial Port		COM 1: RS-232 COM 2: RS-232/RS-422/RS-485
USB	Detail	2 x USB 3.0/2.0 Ports (Real IO), 2 x USB 2.0 Ports (by Front IO),
Expansion		1 x Full Size Mini Card

3. OS Support Request

Operation System	Support	Notes
Windows 10 (64 bit)	V	
Linux	V	Ubuntu 16.04.4

4. Mechanical Drawing



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5. Qualification Plan

Formal certification CE / FCC Class A

Drop test : Reference ISTA PROJECT 1A

Random Vibration / 5-500Hz ; 2grms

6. Ordering Information / Product Configuration

TBD