

GENESYS-APL7

3.5" SubCompact Board System with Intel® Pentium® N4200/ Celeron® N3350 Processor SoC

SubCompact Board System



Features

- Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
- DDR3L 1866, Single Channel SODIMM x 1, Non-ECC (Max.8GB, up to 1600MHz)
- VGA
- SATA 6.0 Gb/s x 1
- USB 3.2 Gen 1 x 2, USB 2.0 x 1, COM x 7
- mSATA x 1 (Full size), Mini Card x 1 (Full size)
- DC 12V Only, ATX Mode



VIDEO	—
SATA	SATA III x 1 +5V SATA Power Connector x 1
AUDIO	—
DIO/GPIO	—
SMBus/I2C	I2C/SMBus x1 (Default: SMBus)
Touch	—
FAN	DC Fan x 1 (optional: Smart Fan)
SIM	Micro SIM x 1 (Optional)
Front Panel	PWR LED, Power Button
Others	—
EXPANSION	
Mini PCI-E/mSATA	Full-size mPCIe x 1 Full-Size mSATA/mPCIe x 1 (Default mSATA, BOM Option: mPCIe)
M.2	—
Others	—
ENVIRONMENT & CERTIFICATION	
OPERATING TEMP	32°F ~ 122°F (0°C ~ 50°C)
STORAGE TEMP	-40°F ~ 185°F (-40°C ~ 85°C)
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing
MTBF (HOURS)	126,000
EMC	CE/FCC Class A

Specifications

SYSTEM	
FORM FACTOR	3.5" SubCompact Board System
CPU	Intel® Atom®/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T, 1.10GHz, up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz, up to 2.40GHz, TDP 6W)
CHIPSET	Integrated with Intel® SoC
MEMORY TYPE	DDR3L 1866, Single Channel SODIMM x 1, Non-ECC (Max.8GB, up to 1600MHz)
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	—
RTC Battery	Lithium Battery 3V/240mAh
DIMENSION	7.00" x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
OS Support	Windows 10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10
POWER	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	ATX
CONNECTOR	DC Jack Connector
POWER CONSUMPTION	Intel® N4200,DDR3L 1600MHz 8GB,1.61A@+12V(Typical)
DISPLAY	
CONTROLLER	Intel® HD Graphics 500/505
LVDS/eDP	—
Display Interface	VGA x 1
Multiple Display	—
AUDIO	
CODEC	—
AUDIO INTERFACE	—
Speaker	—
EXTERNAL I/O	
ETHERNET	Realtek RTL8119-CG,10/100/1000Base, RJ-45 x 2
USB	USB 3.2 Gen1 x 2
SERIAL PORT	COM1 (RS232)
VIDEO	VGA x 1
INTERNAL I/O	
USB	USB2.0 x 2
SERIAL PORT	Optional: COM3,COM4(RS232, COM3~COM5 support 5V/12V/RI) Optional: COM9~COM12

Packing List

- GENESYS-APL7

Optional Accessories

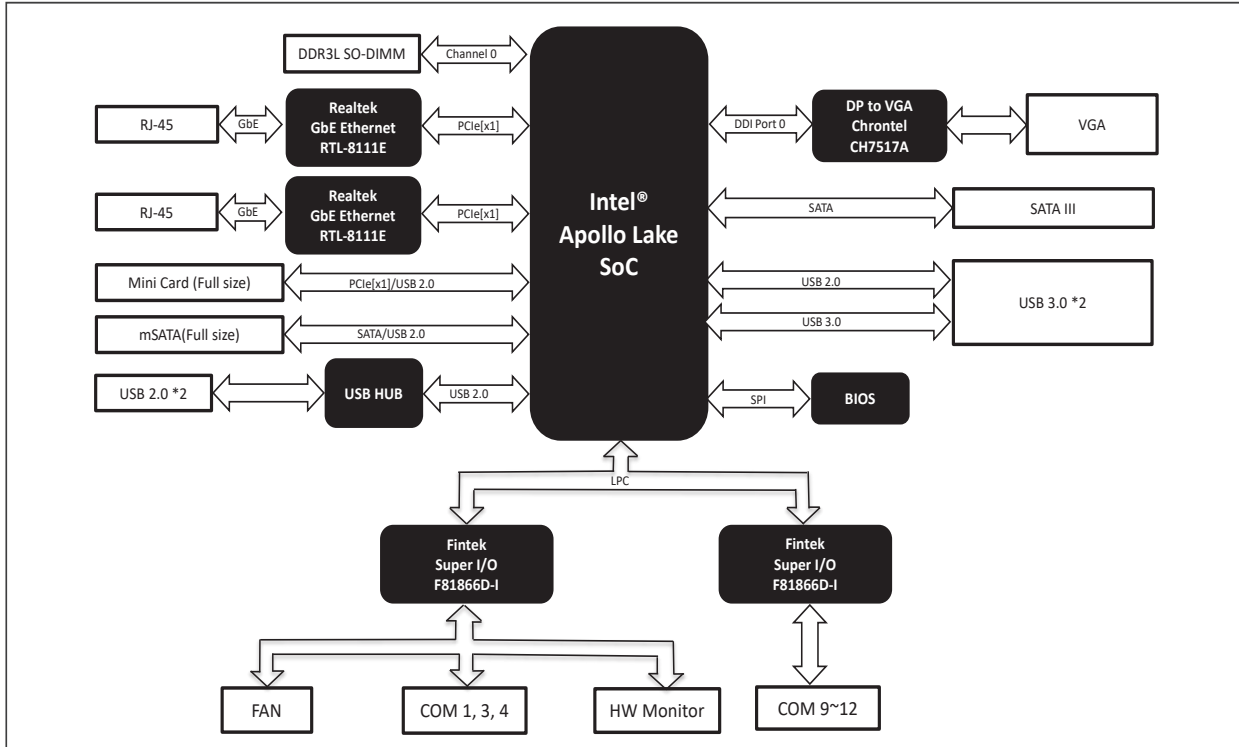
Part Number	Description	QTY
968D3004G6	4GB,DDR3L,204Pin SODIMM,1600,Transcend.TS512MSK64W6H	1
968D3008G7	8GB,DDR3L-1600,204Pin SO-DIMM,1.35V,512Mx8,Samsung, K4B4G0846X,Transcend.TS16GSK64W6H	1
968C032G32	Full-size mSATA,32GB,Transcend.TS32GMSA370	1
968C064G2K	Full-size,64GB,mSATA,MLC,Transcend.TS64GMSA370	1
968C256G22	2.5" SATA3 SSD,256GB,MLC,-10~80C,Transcend.TS256GSSD420K-AA	1
968C512G06	2.5" SATA3 SSD,512GB,MLC,-10~80C,Transcend.TS512GSSD420K-AA	1
125530060Z	Power Adapter, 12V,5A,60W, FSP060-DHAN3	1
1255300960	Power Adapter, 12V,5A,96W, FSP096-DHAN3	1
1702031802	Power Cord (US)	1
1702031803	Power Cord (Europe)	1
170203180E	Power Cord (Japan)	1
GENESYS-APL7-WMT1	Wall Mount Kit, For GENESYS-APL7	1
GENESYS-APL7-VESA1	VESA Mount Kit, For GENESYS-APL7	1
GENESYS-APL7-HDD1	HDD Kit, For GENESYS-APL7	1
GENESYS-APL7-COM1	COM Extension Kit, w/ 1 Cable, For GENESYS-APL7	1

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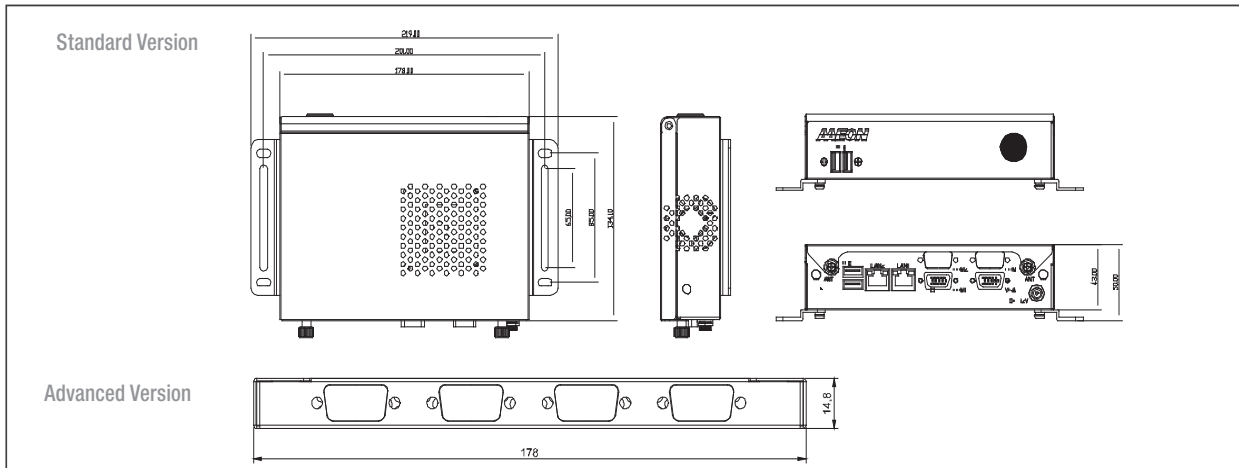
SubCompact Board System

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/Fanless	Display	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
GENESYS-APL7-A10-FS01	N3350	w/HS, Fan	VGA	SATA x 1, mSATA x 1 (full size)	GbE x 2	USB 3.2 Gen 1 x 2, USB 2.0 x 2	1	—	MiniCard x 1 (Full)	12V	0°C ~ 50°C	—
GENESYS-APL7-A10-FS02	N4200	w/HS, Fan	VGA	SATA x 1, mSATA x 1 (full size)	GbE x 2	USB 3.2 Gen 1 x 2, USB 2.0 x 2	1	—	MiniCard x 1 (Full)	12V	0°C ~ 50°C	—

Note: All specifications are subject to change without notice.

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