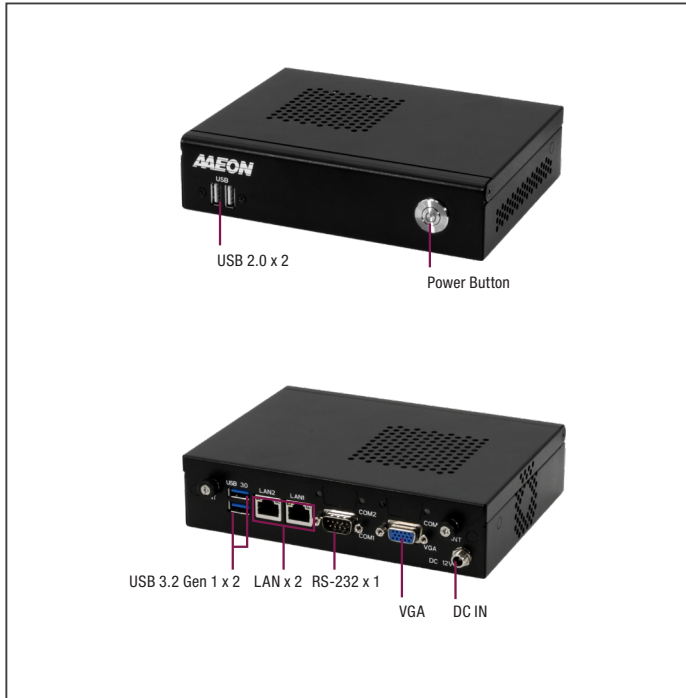


GENESYS-APL7

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



Specifications

| SYSTEM | |
|-------------------|---|
| FORM FACTOR | 3.5" SubCompact Board |
| CPU | Intel® Atom™/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T, 1.10 GHz, up to 2.50 GHz) Celeron N3350 (2C/2T, 1.10GHz, up to 2.40GHz) |
| CPU TDP | 6W: N4200, N3350 |
| CHIPSET | Integrated with Intel® SoC |
| MEMORY TYPE | DDR3L up to 1866MHz, SODIMM x 1, up to 8GB, Non-ECC |
| BIOS | UEFI |
| WAKE ON LAN | Yes |
| WATCHDOG TIMER | 255 Levels |
| SECURITY | — |
| RTC Battery | Lithium Battery 3V/240mAh |
| DIMENSION (L X W) | 178mm x 134.1mm x 43mm |
| 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 |

Features

- Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
- DDR3L 1866 MHz SODIMM x 1, up to 8 GB
- 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 ~ 176°F (-40°C ~ 80°C) |
| OPERATING HUMIDITY | 0% ~ 90% relative humidity, non-condensing |
| MTBF (HOURS) | 126,000 |
| EMC | CE/FCC Class A |

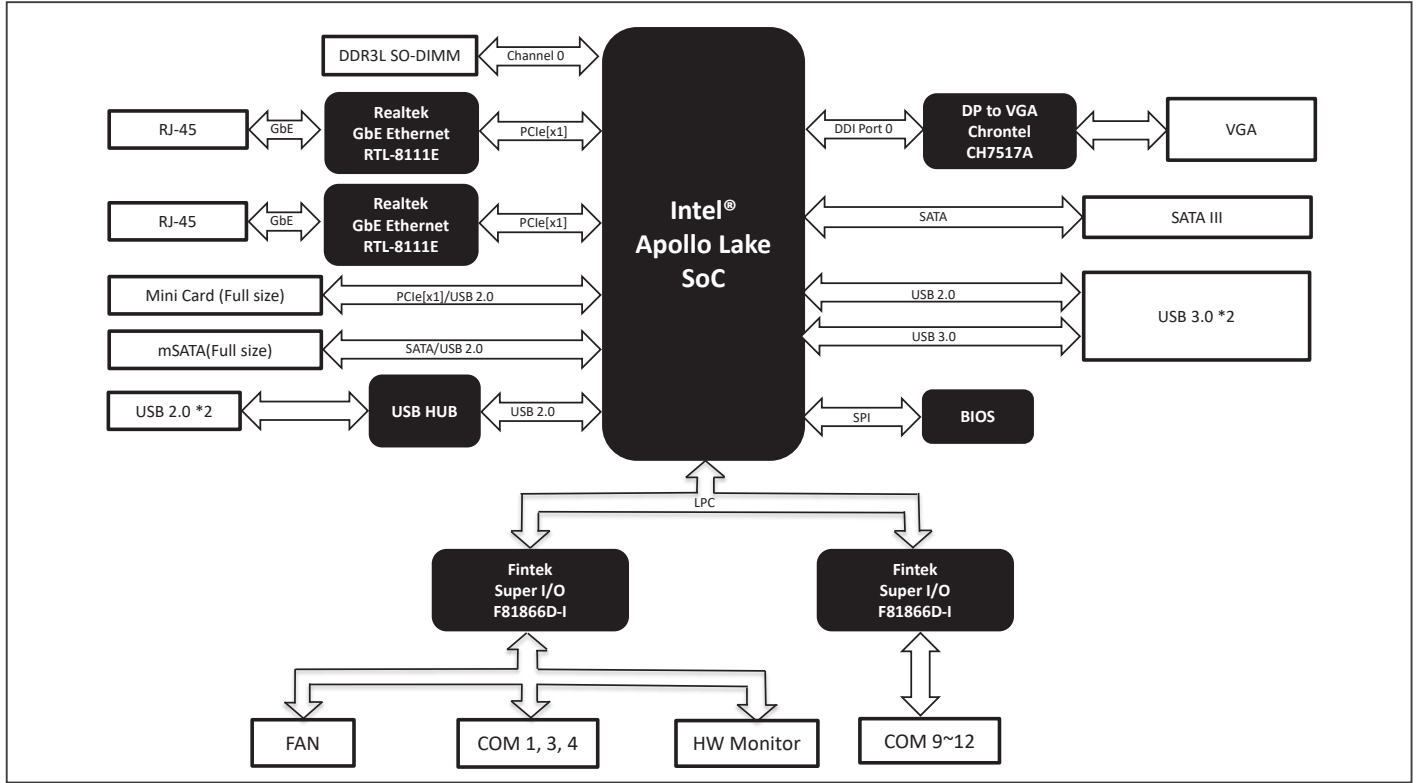
Packing List

- GENESYS-APL7

Optional Accessories

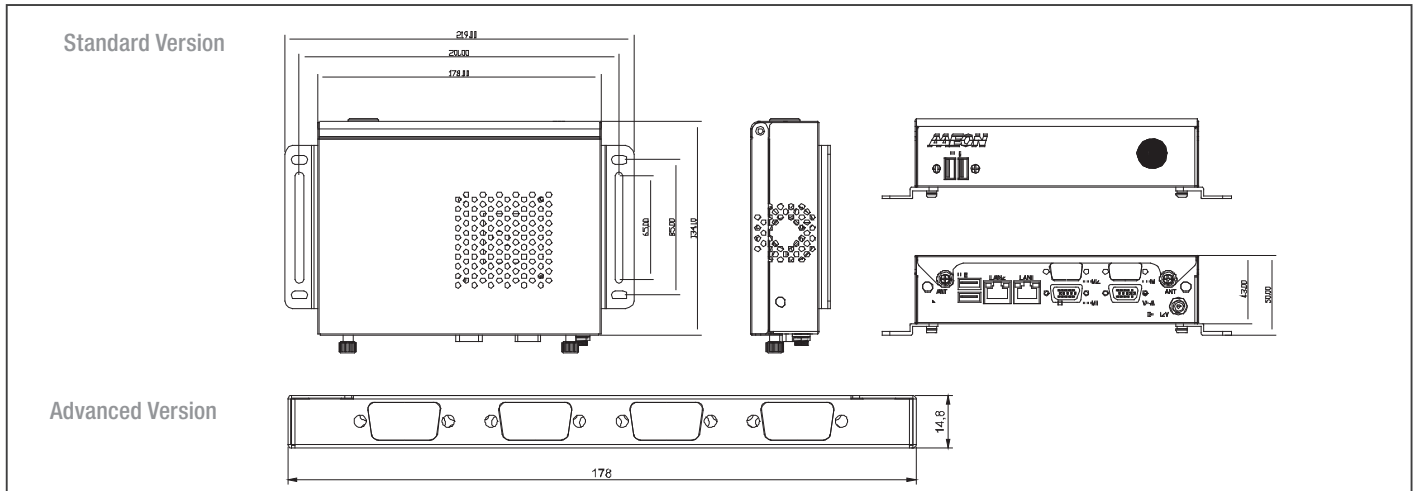
| Part Number | Description | QTY |
|--------------------|---|-----|
| 968D3004G6 | 4GB, DDR3L, 204Pin SODIMM, 1600, Transcend, TS512MSK64W6H | 1 |
| 968D3008G7 | 8GB, DDR3L-1600, 204Pin SO-DIMM, 1.35V, 512Mx8, Samsung, K4B4G0846X, Transcend, TS1GSK64W6H | 1 |
| 968C032G32 | Full-size mSATA, 32GB, Transcend, 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 |

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 | — |