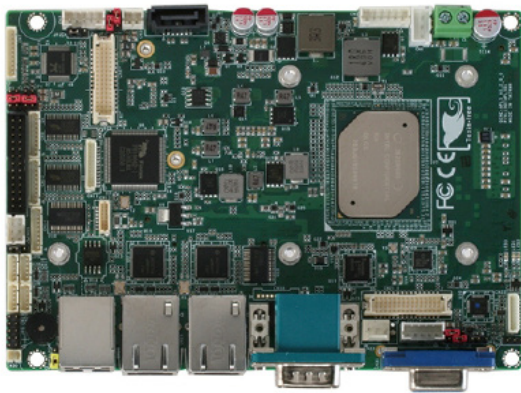


Embedded Single Board for OEM/ODM

# ONYX GENE-APL5

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



## Features

- Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
- DDR3L 1866 MHz SODIMM x 1, up to 8 GB
- VGA/LVDS/LVDS2 (HDMI Co-layout with LVDS2 Optional)
- 2 CH Audio, SATA 6.0 Gb/s x 1
- Supports 8-bit Digital I/O , USB 2.0 x 4 , USB 3.2 Gen 1 x 2 , COM x 4
- Mini Card x 1 (Half-size), mSATA x 1 (Full size)
- DC 12V Only or +9~19V (Optional), AT/ATX Mode
- Supports TPM (Optional)
- 4/5/8-wire Resistive Touch Screen Controller (Optional)



## Specifications

### System

|                             |   |
|-----------------------------|---|
| Form Factor                 | 3.5" SubCompact Board                               |
| CPU                         | Intel® Pentium® N4200/ Celeron® N3350 Processor SoC |
| CPU Frequency               | Up to 2.5GHz  |
| Chipset                     | Intel® Pentium® N4200/ Celeron® N3350 Processor SoC |
| Memory Type                 | DDR333 SODIMM x 1 (DDR400 optional)                 |
| Memory Capacity             | Up to 8 GB  |
| BIOS                        | UEFI  |
| Wake on LAN                 | Yes   |
| Watchdog Timer              | 255 Levels  |
| Power Requirement           | +12V OR +9~19V (optional)                           |
| Power Supply Type           | AT / ATX  |
| Power Consumption (Typical) | Intel® N4200, DDR3L 1600MHz 8GB, 1.57A@ +12V        |
| Dimension (L x W)           | 5.75" x 4" (146 mm x 101.7 mm)                      |
| Operating Temperature       | 32°F ~ 140°F (0°C ~ 60°C)                           |
| Storage Temperature         | -40°F ~ 176°F (-40°C ~ 80°C)                        |
| Operating Humidity          | 0% ~ 90% relative humidity, non-condensing          |
| MFTB (Hours)                | 128,000   |
| Certification               | CE / FCC  |

### Display

|                           |   |
|---------------------------|---|
| VGA / LCD Controller      | Intel® Atom™ N4200/ N3350 Processor SoC integrate |
| Video Output              | VGA/LVDS/ LVDS2 (co-layout with HDMI, optional)   |
| Backlight Inverter Supply | Yes   |

### I/O

|                |   |
|----------------|---|
| Ethernet       | Intel® i210/I211, 10/100/1000Base-TX, RJ-45 x 2 |
| Audio          | High Definition Audio Interface                 |
| USB Port       | USB 3.2 Gen 1 x 2, USB 2.0 x 4                  |
| Serial Port    | RS-232 x 2 , RS-232/422/485 x 2                 |
| Parallel Port  | SPP/EPP/ECP x 1 (Option, Shared with DIO)       |
| HDD Interface  | SATA 3.0 x 1<br>+5V SATA power connector x 1    |
| FDD Interface  | —   |
| SSD            | mSATA   |
| Expansion Slot | mSATA x 1 (Full-size), MiniCard x 1 (Half-size) |
| DIO            | 8-Bit   |
| SIM            | x 1 (uSIM) (Optional)                           |
| TPM            | TPM2.0 x 1 (Optional)                           |
| Touch          | x 1 (Optional)                                  |