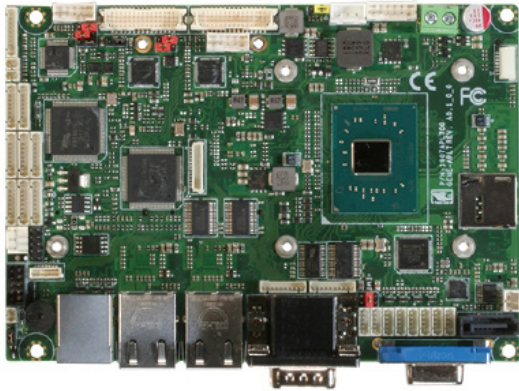


Embedded Single Board for OEM/ODM

ONYX GENE-APL7

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/LVDS1/LVDS2 (LVDS1 Co-design with eDP)
- SATA 6.0 Gb/s x 1, GPIO x 8
- USB 3.2 Gen 1 x 2, USB 2.0 x 8, COM x 12
- mSATA x 1 (Full size), Mini Card x 1 (Full size) with uSIM
- DC 12V Only, AT/ATX Mode



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 | DDR3L 1866MHz, SODIMM x 1 |
| Memory Capacity | Up to 8 GB |
| BIOS | AMI |
| Wake on LAN | Yes |
| Watchdog Timer | 255 Levels |
| Power Requirement | 12V Only |
| Power Supply Type | AT / ATX |
| Power Consumption (Typical) | Intel® N4200, DDR3L 1600MHz 8GB, 1.61A@ +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 ~ 85°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| MFTB (Hours) | 126,000 |
| Certification | CE / FCC |

Display

| | |
|---------------------------|---|
| VGA / LCD Controller | Intel® Pentium® N4200/ Celeron® N3350 Processor SoC |
| Video Output | VGA/LVDS1 (Option: LVDS2/eDP) |
| Backlight Inverter Supply | Max 12V, 2A |

I/O

| | |
|----------------|--|
| Ethernet | Realtek RTL-8111E, RJ-45 x 2 |
| Audio | High Definition Audio Interface (Option 2W Amp) |
| USB Port | Rear I/O: USB 3.2 Gen 1 x 2 Internal: USB2.0 x 8 |
| Serial Port | Rear I/O: COM x 2 (COM2 is RS-232/422/485) Internal: COM x 4 (Option to COM x 10) COM2-5 support 5V/12V/RI |
| Parallel Port | — |
| HDD Interface | SATA 3.0 x 1 |
| FDD Interface | — |
| SSD | mSATA x 1 (Full, optional for mini-card) |
| Expansion Slot | Mini Card x 1 (Full-size) |
| DIO | 8-Bit |
| SIM | Micro SIM x 1 (Optional) |
| TPM | — |
| Touch | — |