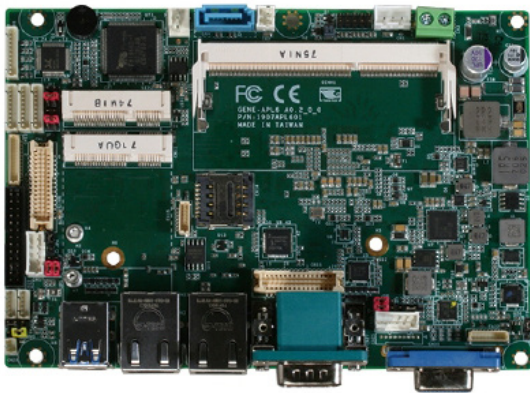


Embedded Single Board for OEM/ODM

ONYX GENE-APL6

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, eMMC up to 64G (Optional)
- Supports 8-bit Digital I/O, USB 2.0 x 2, USB 3.2 Gen 1 x 2, COM x 4
- Mini Card x 1 (Full-size), mSATA x 1 (Half-size)
- 9~36V wide DC input or +12V only (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	DDR3L 1866MHz, SODIMM x 1
Memory Capacity	Up to 8 GB
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+9~36V or +12V
Power Supply Type	AT / ATX
Power Consumption (Typical)	Intel® N4200, DDR3L 1600MHz 8GB, 1.55A@ +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 ~ 81°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MFTB (Hours)	128,793
Certification	CE / FCC

Display

VGA / LCD Controller	Intel® Atom™ N4200/ N3350 Processor SoC integrate
Video Output	LVDS, LVDS2, VGA (HDMI is option, co-layout with LVDS2)
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 2
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 +5V SATA power connector x 1
FDD Interface	—
SSD	eMMC 16G/32G/64G (optional)
Expansion Slot	Mini Card x 1 (Full-size) mSATA x 1 (Half-size)
DIO	8-Bit
SIM	x 1 (uSIM) (Optional)
TPM	x 1 (Optional)