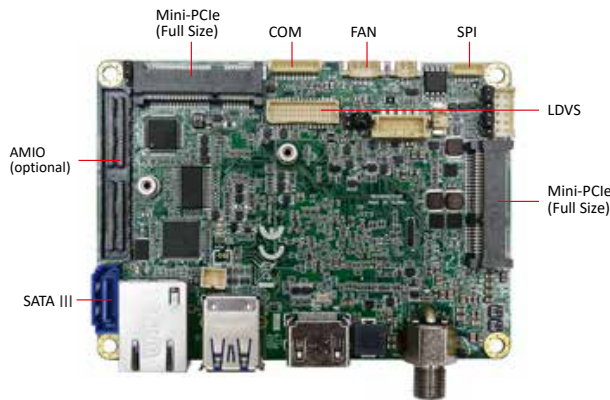


# APIX-APL2

Intel® Atom® / Pentium® / Celeron® Series SoC based Pico-ITX Embedded board with HDMI/LVDS/AMIO, SATA III, 2 COM, 5 USB, Intel® GbE LAN.



## Key Features

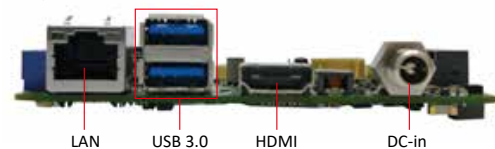
- Intel® Apollo Lake Atom®/Pentium®/Celeron series SoC onboard
- One 204-pin SO-DIMM DDR3L up to 8G DDR3L 1866MT/s SDRAM
- Multi-Display: HDMI/LVDS/AMIO(DP v1.2 interface, optional)
- One Intel® Gigabit Ethernet ports
- 2 Mini-PCIe (1 Full size combo mSATA, 1 Half size), 1 AMIO expansion slots
- 1 SATA III , 2 COM, 2 USB 3.0 and 3 USB 2.0
- Supports 4K/2K Resolution Display
- DC-in 12V, EuP/ErP 2013 Ready

## Product Specification

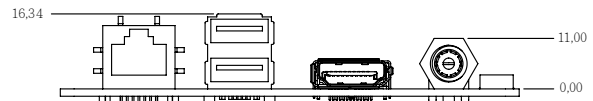
System Processor/Chipset	
Processor	Intel® Apollo Lake series SoC onboard Atom® x7-E3950 (1.6GHz/2.0GHz,QC,18EU, 12W) Atom® x5-E3940 (1.6GHz/1.8GHz,QC,12EU, 9.5W) Atom® x5-E3930 (1.3GHz/1.8GHz,DC,12EU, 6.5W) Pentium® N4200 (1.1GHz/2.5GHz, QC, 18EU, 6W) Celeron® N3350 (1.1GHz/2.4GHz, DC, 12EU, 6W)
Chipset	Intel® Apollo Lake SoC integrated
BIOS	AMI UEFI Flash ROM
Memory	
Technology	DDR3L SDRAM up to 1866 MT/s
Max. capacity	Up to 8GB
Socket	1 x 204-pin SO-DIMM
Display	
Graphics	Intel® HD Gen 9-LP Graphics
Display interface	1 x HDMI v1.4b, 1 x AMIO (DP v1.2) 1 x LVDS (Dual channel 18/24-bit)
Multi-display	Up to three independent displays
Resolution	AMIO (DP): 4096 x 2160 @ 60Hz (max) HDMI: 3840 x 2160 @ 30Hz (max) LVDS: 1920 x 1200 @ 60Hz (max)
Ethernet	
Interface	10/100/1000 Mbps
Controller	LAN1: Intel® I211 GbE
Connector	1 x RJ45 (rear I/O)
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Realtek ALC662 HD Audio Codec
Expansion Slot	
AMIO (optional)	1 x DP, 1 x Line-out, 1 x LPC, 1 x PCIe (x1), 1 x SMBus, 1 x USB 3.0 interface
Mini-PCIe	1 x Full size (combo mSATA) 1 x Half size
SATA	
Max. data transfer rate	6.0Gb/s
Port	1 x SATA III
I/O	
Audio	Line-in, Line-out, Mic-in (box-header)
USB	2 x USB 3.0 (rear I/O) 3 x USB 2.0 (box-header )
COM	COM1: RS-232/422/486 (box-header) COM2: UART (combo GPIO, box-header) All parts with 5V Selection
HDMI/VGA/DVI/DP/LVDS	1 x HDMI (rear I/O), 1 x LVDS (box-header) 1 x AMIO (DP interface)
DIO	8-bit (box-header, optional)
SMBus	1 x SMBus (box-header)

Power Requirement	
Power connector	DC-Jack Screw Type or DC-wafer 1x2-pin(optional)
Power type	DC-in 12V
Power mode	AT / ATX (by jumper selection)
Watchdog Timer	
Interval	Programmable 1~255 sec/min
Output	System reset
Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) standard -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 80°C (-4°F ~ 176°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	Pico-ITX (2.5") Embedded board 100mm x 72mm (3.94" x 2.84")

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
APIX-APL2-3950 (MOQ)	Pico-ITX,Intel Atom E3950 12W,HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN,DC(12V)/DC-Jack(Screw)
APIX-APL2-3940 (MOQ)	Pico-ITX,Intel Atom E3940 9.5W,HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN,DC(12V)/DC-Jack(Screw)
APIX-APL2-3930 (MOQ)	Pico-ITX,Intel Atom E3930 6.5W,HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN,DC(12V)/DC-Jack(Screw)
APIX-APL2-4200	Pico-ITX,Intel Pentium N4200 6W,HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN,DC(12V)/DC-Jack(Screw)
APIX-APL2-3350	Pico-ITX,Intel Celeron N3350 6W,HDMI/LVDS,SATA/2COM/5USB/LAN,DC(12V)/DC-Jack(Screw)

## Optional Accessories

Part Number	Description
VK00000700A9	SATA cable
TBD	SATA power cable
113310710601	Heatsink w/o FAN
113310716601	Heat spreader

\*All specifications and photos are subject to change without prior notice

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660