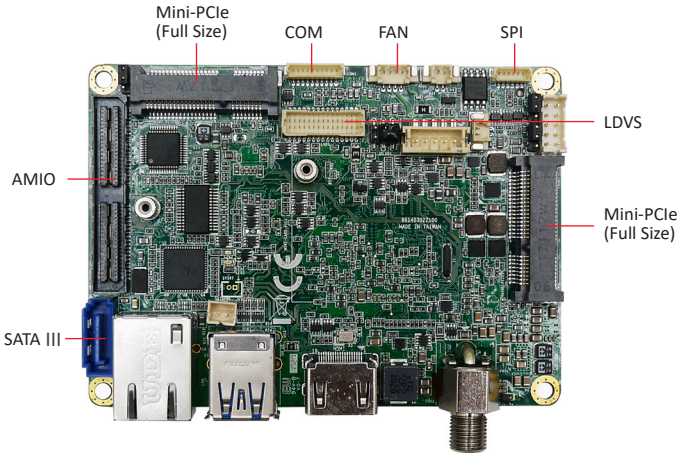
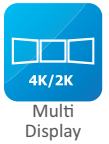


APIX-APL2

Intel® Atom® E3900 Series SoC PICO- ITX Embedded board with HDMI/DP(AMIO)/LVDS, 2 COM, 5 USB, One GbE LAN.



Key Features

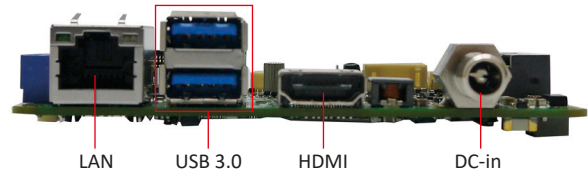
- Intel® Apollo Lake-I SoC on board
- One 204-pin SO-DIMM DDR3L up to 8G DDR3L 1866 MHGz SDRAM
- Multi-Display: HDMI/DP(AMIO)/LVDS
- One Intel® Gigabit Ethernet ports
- 2 Mini-PCle (1 w/ mSATA, 1 w/ Half size) expansion slots
- 1 SATA III , 2 COM, 2 USB 3.0 and 3 USB 2.0
- Supports 4K/2K Resolution Display
- DC-in 12V
- EuP/ErP 2013 Ready

Product Specification

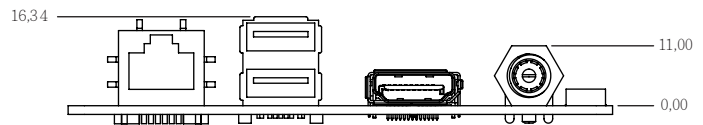
System Processor/Chipset	
Processor	Intel® Atom™ x5-E3940 1.60GHz (9.5W) Intel® Atom™ x7 E3950 1.60GHz (12W) Intel® Atom™ x5 E3930 1.30GHz (6.5W) Intel® Apollo SoC N4200 QC 1.10GHz (6W) Intel® Apollo SoC N3500 DC 1.10GHz (6W)
Chipset	Intel® Apollo Lake-I SoC integrated
BIOS	AMI SPI Flash ROM
Memory	
Technology	DDR3L up to 1866MHz SDRAM
Max. capacity	Up to 8GB
Socket	1 x 204-pin SO-DIMM
Display	
Graphics	Intel® HD Gen.9-LP Graphics
Display interface	HDMI, DP (AMIO) LVDS (Dual channel 18/24-bit)
Multi-display	DP(AMIO)+ HDMI HDMI + LVDS DP(AMIO)+ LVDS HDMI + LVDS + DP(AMIO)
Resolution	DP: Up to 4096 x 2160 @ 60Hz HDMI: Up to 3840 x 2160 @ 30Hz LVDS: Up to 1920 x 1200 @ 60Hz
Ethernet	
Interface	10/100/1000 Mbps
Controller	LAN1: Intel® I211 GbE
Connector	1 x RJ45
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Realtek ALC662 HD
Expansion Slot	
Mini-PCle	2 (1 x Full size w/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-232/422/485) COM2: (RS-232) All parts with 5V Selection
HDMI/VGA/DVI/DP	1 x HDMI (Rear I/O) 1 x DP (AMIO)
DIO	8bit
SMBus	1
Power Requirement	
Power connector	DC-wafer 1x2-pin or DC-Jack Screw Type(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)	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 x7 E3950 12W, HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN, DC(12V)
APIX-APL2-3940 (MOQ)	Pico-ITX, Intel Atom x5 E3940 9.5W, HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN, DC(12V)
APIX-APL2-3930	Pico-ITX, Intel Atom x5 E3930 6.5W, HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN, DC(12V)
APIX-APL2-3350 (MOQ)	Pico-ITX, Intel Celeron N3350 6W, HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN, DC(12V)
APIX-APL2-4200	Pico-ITX, Intel Pentium N4200 6W, HDMI/LVDS/AMIO, SATA/2COM/5USB/LAN, DC(12V)

Accessories list

Part Number	Description
VK00000700A9	SATA cable
TBD	SATA Power
113310710601	Heatsink with FIN
113310716601	Heatsink without FIN

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