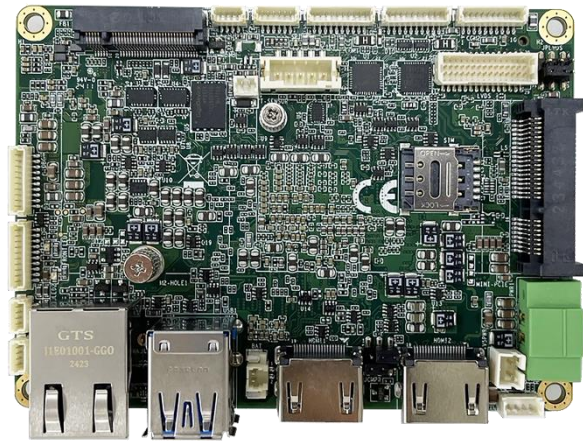


APIX-EHL3

Intel® Atom®/ Pentium®/ Celeron® Series SoC based 2.5" Embedded Board with 2 HDMI /2 LVDS, SATA III, 2 COM, 6 USB, Dual Intel® GbE LAN.



Key Features

- Intel® Elkhart Lake Atom®/ Celeron® series SoC on board
- One 260-pin SO-DIMM up to 32GB DDR4 3200MT/s SDRAM
- Multi-Display Support
- One 2.5 Gigabit Ethernet support
- 2xHDMI, 2xUSB 3.0, 2xUSB 2.0, 2xCOM,
- 1 x Full size Mini-PCIe \ 1 x B+M-Key 3042
- EuP/ErP 2013 Ready, DC-IN 12V
- Support dTPM v2.0 (optional)

Product Specification

System Processor / Chipset	
Processor	Intel® Elkhart Lake series SoC onboard Atom® x6425E (2.0GHz/3.0GHz, QC, 32EU, 12W) Atom® x6413E (1.5GHz/3.0GHz, QC, 16EU, 9W) Celeron® J6412 (2.0GHz/2.6GHz, QC, 16EU, 10W) Celeron® N6210 (1.2GHz/2.6GHz, DC, 16EU, 6.5W)
Chipset	Intel® Elkhart Lake SoC integrated
BIOS	AMI® UEFI Flash ROM
Memory	
Technology	DDR4 SDRAM up to 3200 MT/s
Capacity	Up to 32GB
Socket	1 x 260-pin SO-DIMM
Display	
Graphics	Intel UHD Graphics 10th Gen Graphics
Display interface	2 x HDMI v1.4b 1 x LVDS 18/24-bit, single/Dual channel 1 x eDP v1.3
Multi-display	Up to three independent displays
Resolution	HDMI: Up to 3840 x 2160 @ 30Hz (max.) LVDS: Up to 1920 x 1200 @ 60Hz (max.) eDP: Up to 4096 x 2160 @ 60Hz (max.)
Ethernet	
Interface	10/100/1000/2500 Mbps
Controller	RTL 8125BGS
Connector	1 x RJ45 (Rear I/O)
Audio	
Interface	High Definition Audio (HD)
CODEC	Realtek® ALC888S
Expansion Slot	
Mini-PCIe	1 x Full size (SATA x1 / PCIe X1/USB2.0 support, Nano SIM Optional)
M.2 (NGFF)	1 x B+M-Key 3042 (SATA x1 / PCIe x2/USB2.0 /USB3.0 / Nano SIM support)
I/O	
Audio	1 x Line-out/Line-in/Mic-in
COM	1 x RS-232 1 x RS-232 / 422 / 485
DIO	1 x 8 bits DIO (Optional with COM2)
SMBus	1 x SMBus
USB	2 x USB 3.0 (Rear I/O) 2 x USB 2.0
FRONT	1x Front support Power/HDD/Suspend-LED/PwrBTN
FAN	1 x 4 pin FAN (PWM only)
BUZZER	1 x 2 pin, +5V)
SPI	1 x SPI
Battery	1 x Battery
Other	
TPM	Infineon SLB9670 dTPM v2.0 (optional)

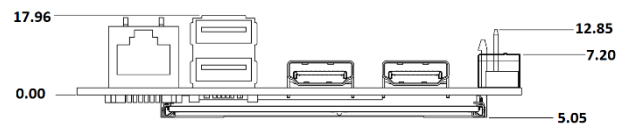
*All specifications and photos are subject to change without prior notice

Power Requirement	
Power connector	2Pin PHOENIX 3.5mm/8A 2Pin 3.96mm Header With Lock(Optional)
Power type	DC-in 12V
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
Storage temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative humidity	0% ~ 90% (non-condensing)
Form Factor	
Dimensions (L x W)	100mm x 72mm (3. 94" x 2.83")

Rear I/O



Dimensions



Ordering Information

Part Number	Description
RS-APIX-EHL3-6210-S000-A000	Pico-ITX, Intel Celeron N6210 6.5W, 2HDMI/LVDS, mSATA/2COM/4USB/LAN, DC(12V)/PHOENIX2P
RS-APIX-EHL3-6412-S000-A000	Pico-ITX, Intel Celeron J6412 10W, 2HDMI/LVDS, mSATA/2COM/4USB/LAN, DC(12V)/PHOENIX2P
RS-APIX-EHL3-6413-S000-A000	Pico-ITX, Intel Atom x6413E 9W, 2HDMI/LVDS, mSATA/2COM/4USB/LAN, DC(12V)/PHOENIX2P
RS-APIX-EHL3-6425-S000-A000	Pico-ITX, Intel Atom x6425E 12W, 2HDMI/LVDS, mSATA/2COM/4USB/LAN, DC(12V)/PHOENIX2P