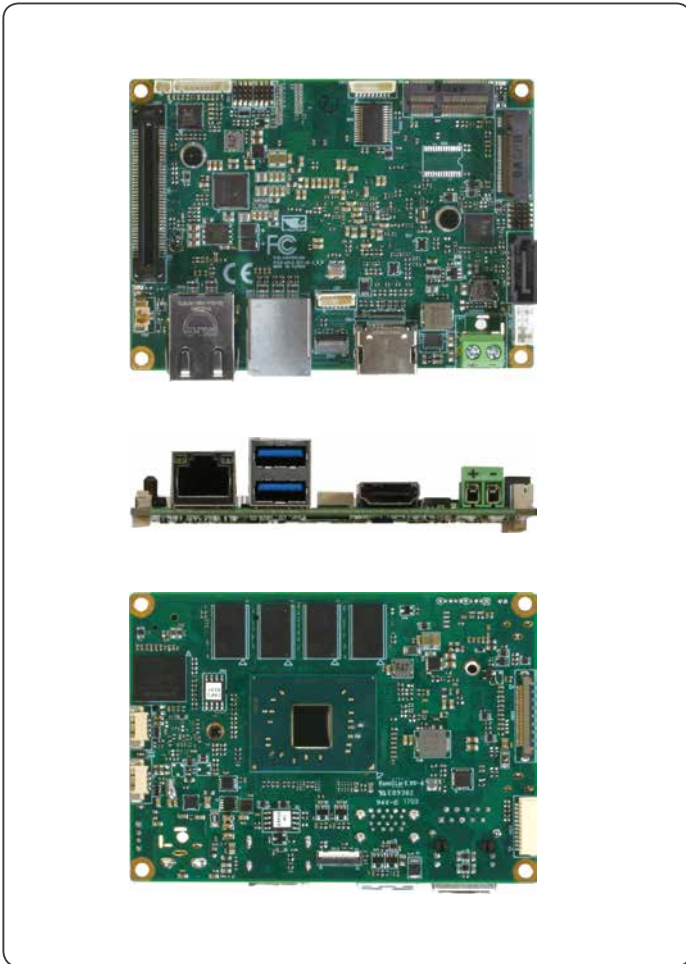


## PICO-ITX Board with Intel® Pentium® N4200/ Celeron® N3350 Atom™ Processor SoC



### Features

- Intel® Pentium® N4200/ Celeron® N3350 Atom™ Processor SoC
- Onboard DDR3L 2GB (Optional to 4GB)
- Onboard Storage eMMC 16GB (Optional to 32GB/64GB)
- Single GbE LAN Support
- HDMI, eDP for Display
- BIO Reserved (Optional)
- USB 3.0 x 2, USB 2.0 x 2, SATAIII x 1
- M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- Onboard HDA Audio Support (Line in, Line out, MIC)
- MIPI-CSI 2 Lanes x 1 for 2M Camera
- MIPI-CSI 4 Lanes x 1 for 8M Camera



### Specifications

System	
Form Factor	PICO-ITX
CPU	Intel® Atom™ Processor SoC
CPU Frequency	Up to 2.4GHz
Chipset	Intel® Atom™ Processor SoC
Memory Type	Onboard DDR3L 2G (Option to 4G)
Max. Memory Capacity	Up to 4GB
BIOS	AMI/SPI
Wake On LAN	Yes
Watchdog Timer	255 Level
Power Requirement	+12V, AT/ATX
Power Supply Type	Lockable & phenix Terminal co-lay
Power Consumption (Typical)	—
System Cooling	Heat-spreader, heatsink & cooler (Optional)
Dimension	3.94" x 2.84" (100mm x 72mm)
Gross Weight	—
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C),
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Certification	CE,FCC
Display	
Chipset	Intel® Atom Processor SoC
Resolution	1. HDMI: 3840x2160@30Hz 2. Internal eDP: 4096x2160@60Hz (Optional) 3. DDI (Optional from BIO)
LCD Interface	eDP

I/O	
Storage/SSD	SATA III 6.0Gb/s x 1, 5V/12V Power reserved M.2 2280 (B Key) x 1 eMMC 16G (optional to 32/64G)
Ethernet	Realtek 8111G x 1
USB Port	USB 3.0 x 2 Rear IO USB 2.0 x 2 (Internal, co-use with FAN connector)
Serial Port	COM1: RS-232 COM2: RS-232
Audio	ALC269 (Included Amp)
DIO	4-bit
Expansion Slot	M.2 2230 x 1 (E-Key) BIO x 1 (Optional) I2C, Smbus, I2S MIPI-CSI x 2 Lanes (Optional) MIPI-CSI x 4 Lanes (Optional)
SIM	—
TPM	TPM2.0 (Optional)
Touch	—

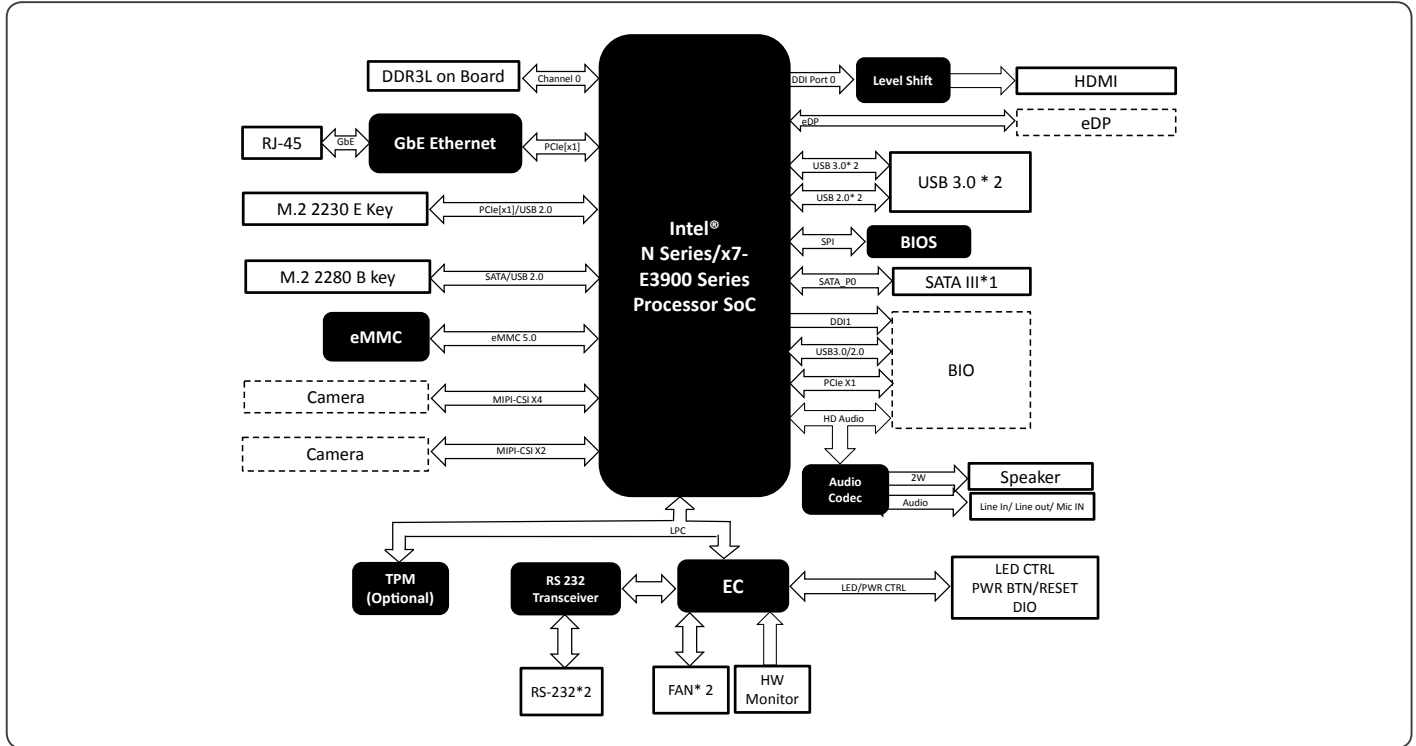
### Packing List

- 1703200153  
COM x 2, Line out Cable
- Product DVD
- PICO-APL3

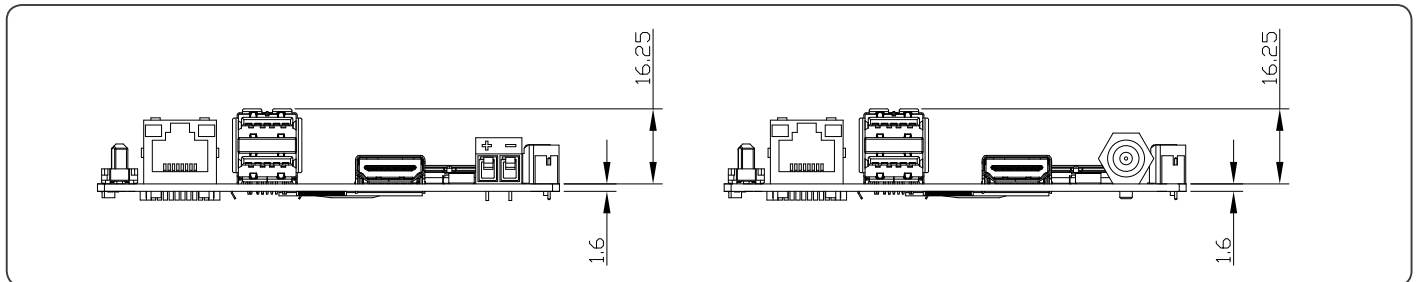
### Optional Accessories

Part Number	Description	Qty
1709070500	(TF) SATA Cable. 50cm	1
1702150155	(TF) SATA Power Cable.15cm	1
TBD	Heatsink	1
TBD	Heat Spreader	1

## Block Diagram



## Dimension Unit: mm



## Ordering Information

Part Number	CPU	Memory	Thermal	Display	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
PICO-APL3-A10-0001 (TBD)	Intel® Celeron® N3350 (Dual Core)	Onboard DDR3L (Max 4GB)	Fanless	HDMI x 1 eDP x 1 (Optional)	SATAIII x 1 M.2 2280 (B Key) x 1 eMMC 16G (optional to 32/64G)	GbE x 1	USB 3.0 x 2 (Rear) USB 2.0 x 2 (Internal)	2	—	M.2 2230 (E Key) x 1	+12V (AT)	0°C ~ 60°C	DIO 4 bit Audio TPM (Optional)