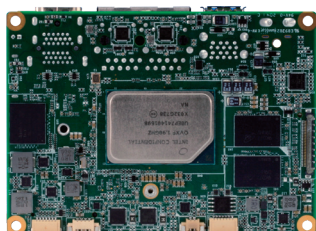
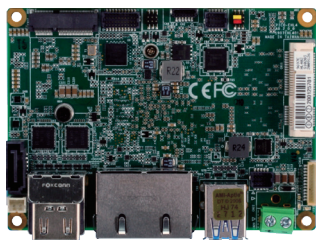


PICO-EHL4

PRELIMINARY

Pico-ITX Board with Intel Atom® x6000E Series, and Intel® Pentium® and Celeron® N and J Series Processors



Features

- Intel Atom® x6000E Series, and Intel® Pentium® and Celeron® N and J Series Processors SoC
- HDMI2.0b x 2 + LVDS/eDP1.3 x 1
- GbE x 2 or GbE x 1 (Optional)
- USB x 4 (2 x USB 3.2 GEN2)/rear IO + (2 x USB 2.0)/header
- LPDDR4x on board memory, In-Band ECC
- eMMC x 1/SATA x 1
- COM x 2 Full/CANBUS x 1/mini-PCIe x 1/M.2 E-Key 2230 x 1



I/O	
Storage/SSD	eMMC x 1 SATA x 1 SATA Power (5V) x 1
Ethernet	RTL8111G, 10/100/1000Base, RJ45 x 2 (Compatible with RJ45 x 1)
USB Port	2 x USB 3.2 GEN2/rear IO 2 x USB 2.0/header
Serial Port	RS-232/422/485 x 2
Audio	—
DIO	4-bit
Expansion Slot	M.2 2230 E key x 1 (For WIFI/BT, PCIe/USB signal only) mini-PCIe(Full) x 1 (Default mSATA or USB 2.0, PCIe[x1]x1 by BIOS) SMBUS/I2C + eSPI x 1 CANBUS x 1
SIM	—
TPM	—
Touch	—

Specifications

System	
Form Factor	PICO-ITX
CPU	Intel Atom® x6000E Series, and Intel® Pentium® and Celeron® N and J Series Processors SoC
CPU Frequency	Up to 1.9GHz
Chipset	Intel® Elkhart Lake SoC Processor
Memory Type	LPDDR4x 4267 MHz on board memory, In-Band ECC (select SKUs)
Max. Memory Capacity	Up to 16 GB
BIOS	AMI UEFI
Wake On LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V AT/ATX (default)
Power Supply Type	Lockable & phoenix Terminal co-lay
Power Consumption (Typical)	TBD
System Cooling	Heat-spreader, heatsink & cooler optional
Dimension	3.94" x 2.84" (100mm x 72mm)
Gross Weight	TBD
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)	TBD
Certification	CE/FCC Class A
Display	
Chipset	Intel Atom® x6000E Series, and Intel® Pentium® and Celeron® N and J Series Processors SoC
Resolution	HDMI2.0b x 2, 4K, 60Hz Single channel 12V/3.3V, 18-24 bit LVDS/ eDP 1.3 (Default: LVDS)
LCD Interface	18/24bit Single LVDS

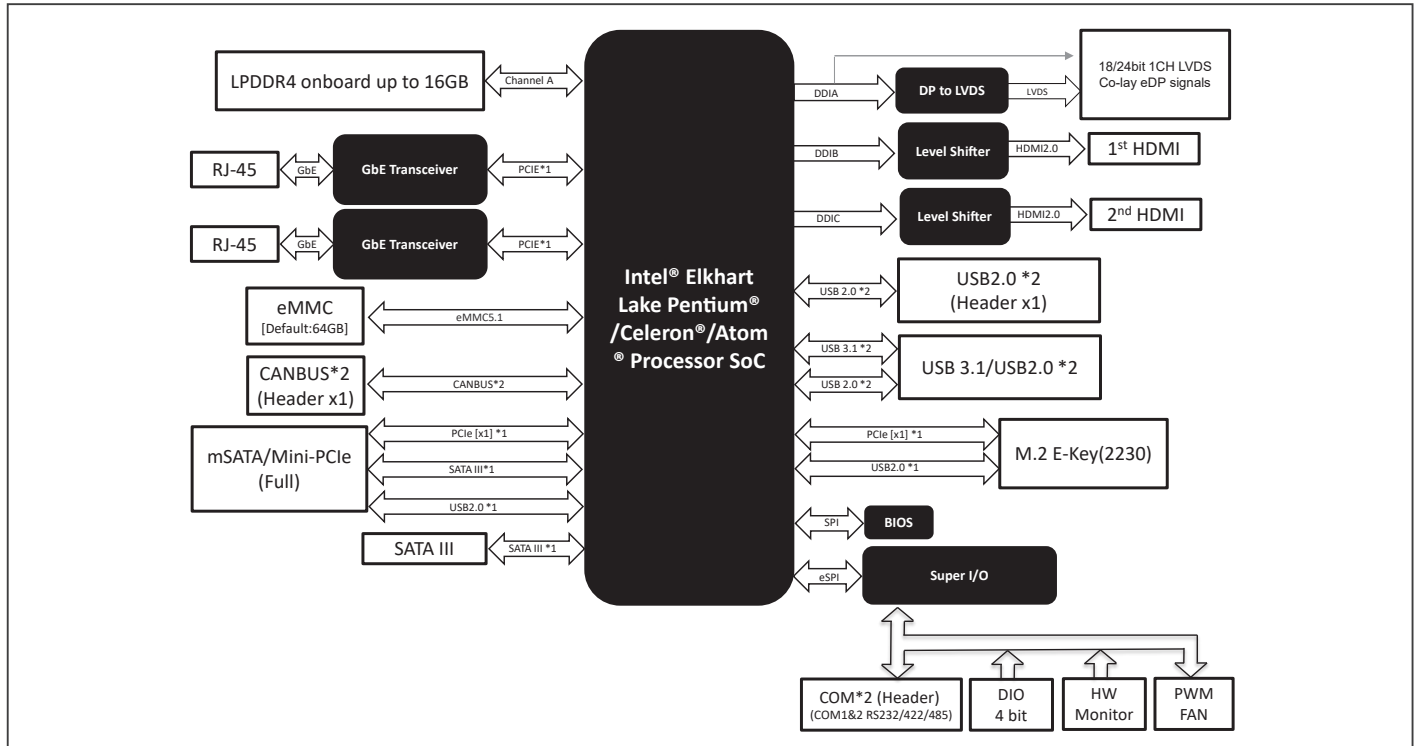
Packing List

- PICO-EHL4

Optional Accessories

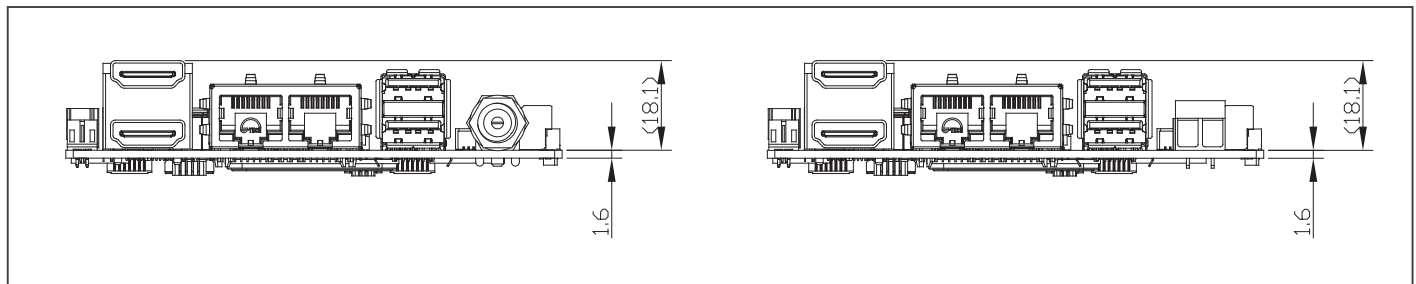
Part Number	Description	Qty.
TBD	COM cable	1
TBD	USB2.0 cable	1
TBD	eDP cable	1
TBD	LVDS signal cable	1
TBD	LVDS power cable	1

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Display	Storage	LAN	USB	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
PICO-EHL4-A10-0001(TBD)	Intel Celeron®	On board LPDDR4x 2G	HDMI x 2 LVDS x 1	SATAIII x 1 eMMC 32GB	GbE x 2	USB3.2 GEN2 + USB2.0 x 2/rear IO USB2.0 x 2/header	2	M.2 2230 E-key x 1 mSATA(Full-size) x 1	+12V (Terminal block)	0°C ~ 60°C	DIO 4bit SMBUS/I2C+ eSPI x 1 CANBUS x 1
PICO-EHL4-A10-0002(TBD)	Intel Atom®	On board LPDDR4x 2G	HDMI x 2 LVDS x 1	SATAIII x 1 eMMC 32GB	GbE x 2	USB3.2 GEN2 + USB2.0 x 2/rear IO USB2.0 x 2/header	2	M.2 2230 E-key x 1 mSATA(Full-size) x 1	+12V (Terminal block)	0°C ~ 60°C	DIO 4bit SMBUS/I2C+ eSPI x 1 CANBUS x 1
PICO-EHL4-A10-0003(TBD)	Intel Atom®	On board LPDDR4x 4G	HDMI x 2	SATAIII x 1 eMMC 32GB	GbE x 2	USB3.2 GEN2 + USB2.0 x 2/rear IO USB2.0 x 2/header	2	M.2 2230 E-key x 1 mSATA(Full-size) x 1	+12V (Terminal block)	0°C ~ 60°C	DIO 4bit SMBUS/I2C+ eSPI x 1 CANBUS x 1