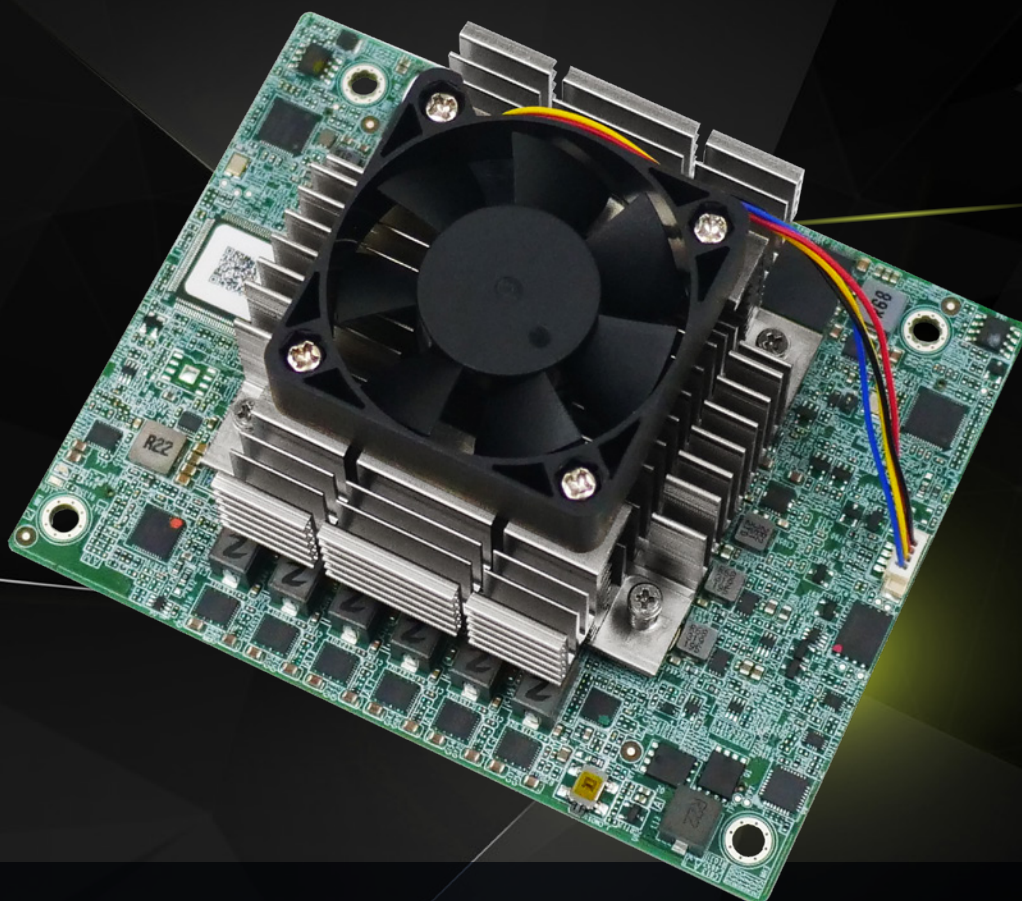


HUK-AADLP

COM-HPC Client Size A Module

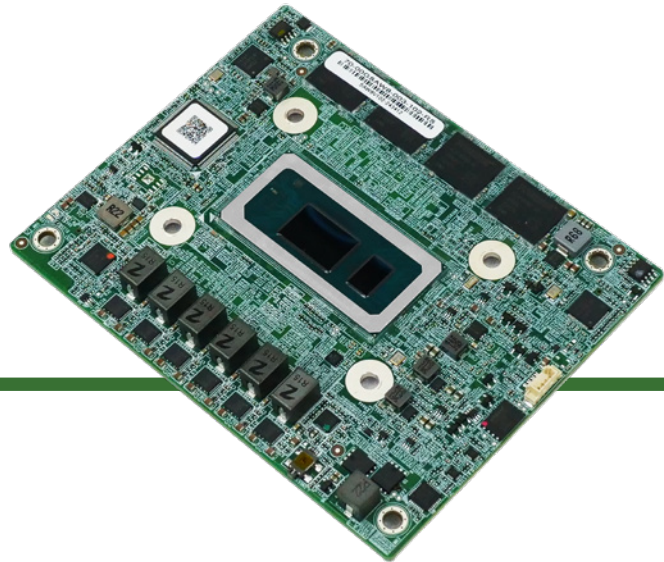
- Support Intel® 12/13th Mobile SOC processor (TDP up to 28W)
- Dual-channel LPDDR5x-4800MHz 16GB, up to 32GB
- Support DisplayPort 1.4a, HDMI & eDP



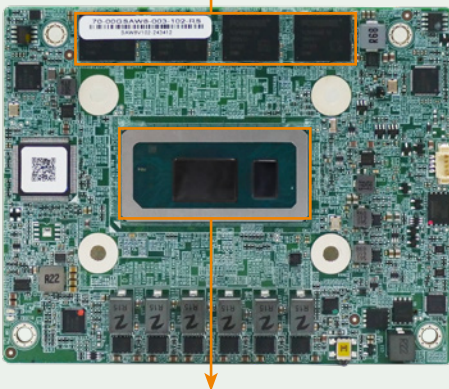
www.ieiworld.com

HUK-AADLP

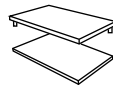
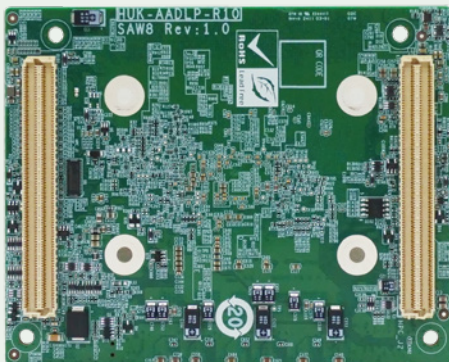
COM-HPC Client size A Module, Intel® Alder Lake P Celeron 7305, with 16GB LPDDR5 memory on board default, Dual 2.5 GbE, PCIe Gen3, SATA 6Gb/s, USB 3.2 Gen 2, RoHS



Onboard LPDDR5x-4800MHz 16GB (up to 32GB)



12/13th Gen. Intel® mobile Alder Lake-P/Raptor Lake-P on-board processor



Compliant with the new COM-HPC specification

Adopting the new (PICMG) COM-HPC computer module. Further performance improvements over COM Express to meet the high-end needs of the industrial edge computing market.



Support Intel® 12/13th Mobile SOC processor

Equipped with Alder Lake-P/Raptor Lake-P Core™ i7/i5/i3 and Celeron® on-board processor (up to 28W TDP CPU)



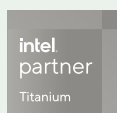
Support Intel® I226-LM / I226-V 2.5GbE Controller

With PCIe 2.5 GbE Intel I226-LM / I226-V signal to baseboard, achieving up to 2.5GbE network transmission rate.

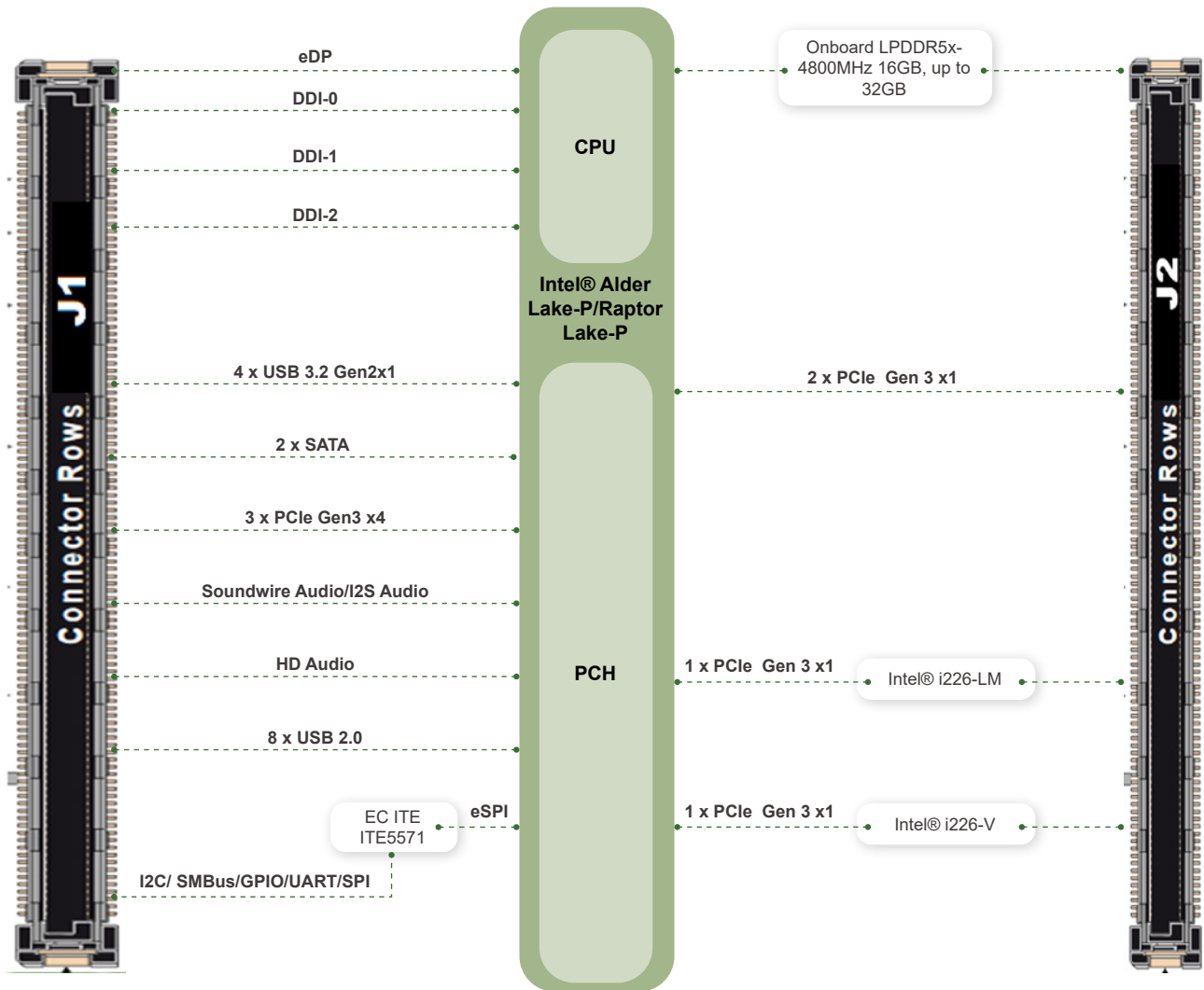


Supports rich PCIe expansion

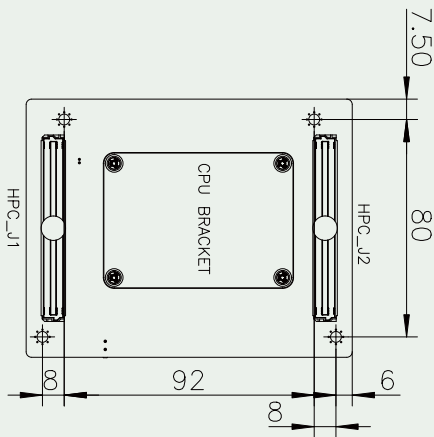
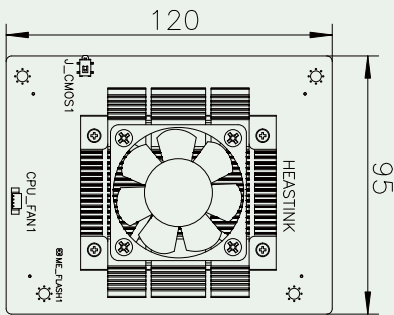
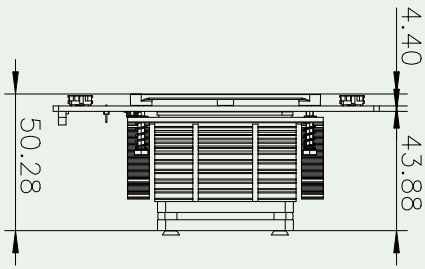
Adequate PCIe signals to the backplane, including 3 x PCIe Gen3 x4 and 2 x PCIe Gen3 x1



Block Diagram



Dimensions



Specifications

Model	HUK-AADLP
Form factor	COM-HPC Client Size A
CPU	Intel® Alder Lake-P/Raptor Lake-P SoC
BIOS	AMI UEFI BIOS
Graphics Engine	Intel® Gen12 UHD Graphics
Memory	Onboard LPDDR5x-4800MHz 16GB, up to 32GB
Display	Quadruple independent display signals to baseboard 3 x DDI 1 x eDP
LAN	2 x PCIe 2.5 GbE with Intel i226-LM/i226-V signal to baseboard
I/O Interface	USB and UART signals to the baseboard: 8 x USB 2.0 4 x USB 3.2 Gen2 2 x UART
Storage	2 x SATA signals to the baseboard
Expansion	PCIe signals to the baseboard: 3 x PCIe Gen3 x4 2 x PCIe Gen3 x1
Front panel	Front panel signal to baseboard
Audio	1 x HD audio signal to baseboard
eSPI	1 x eSPI signal to baseboard
MIPI-CSI	2 x MIPI-CSI signal to baseboard
SMBus	1 x 4-pin wafer signal to baseboard
I ² C	1 x 4-pin wafer signal to baseboard
GPIO	12 Bit GPIO signal to baseboard
Rapid shutdown	1 x Rapid shutdown signal to baseboard
Sleep button signal	1 x Sleep button signal to baseboard
LID button signal	1 x LID button signal to baseboard
Bat_low	1 x Bat_low signal to baseboard
Thermal Protection	1 x Thermal Protection signal to baseboard
IPMB	1 x IPMB signal to baseboard
TPM	TPM2.0
Power Input	ATX 12V Power Supply
Dimensions	95 x 120mm
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5%~95% (non-condensing)

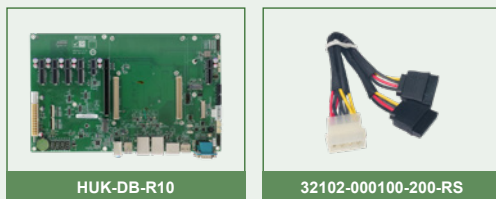
Packing List

1 x HUK-AADLP single board computer	
1x Heatsink cooler module	1 x QIG

Ordering Informaiton

HUK-AADLP-CD-R10	COM-HPC Client size A Module, Intel® Alder Lake P Celeron 7305, with 16GB LPDDR5 memory on board default, Dual 2.5 GbE, PCIe Gen3, SATA 6Gb/s, USB 3.2 Gen 2, RoHS
HUK-AADLP-i3D-R10	COM-HPC Client size A Module, Intel® Alder Lake P i3-1220P, with 16GB LPDDR5 memory on board default, Dual 2.5 GbE, PCIe Gen3, SATA 6Gb/s, USB 3.2 Gen 2, RoHS
HUK-AADLP-i5D-R10	COM-HPC Client size A Module, Intel® Alder Lake P i5-1240P, with 16GB LPDDR5 memory on board default, Dual 2.5 GbE, PCIe Gen3, SATA 6Gb/s, USB 3.2 Gen 2, RoHS
HUK-AADLP-i7D-R10	COM-HPC Client size A Module, Intel® Alder Lake P i7-1260P, with 16GB LPDDR5 memory on board default, Dual 2.5 GbE, PCIe Gen3, SATA 6Gb/s, USB 3.2 Gen 2, RoHS

Optional Accessories



HUK-DB-R10

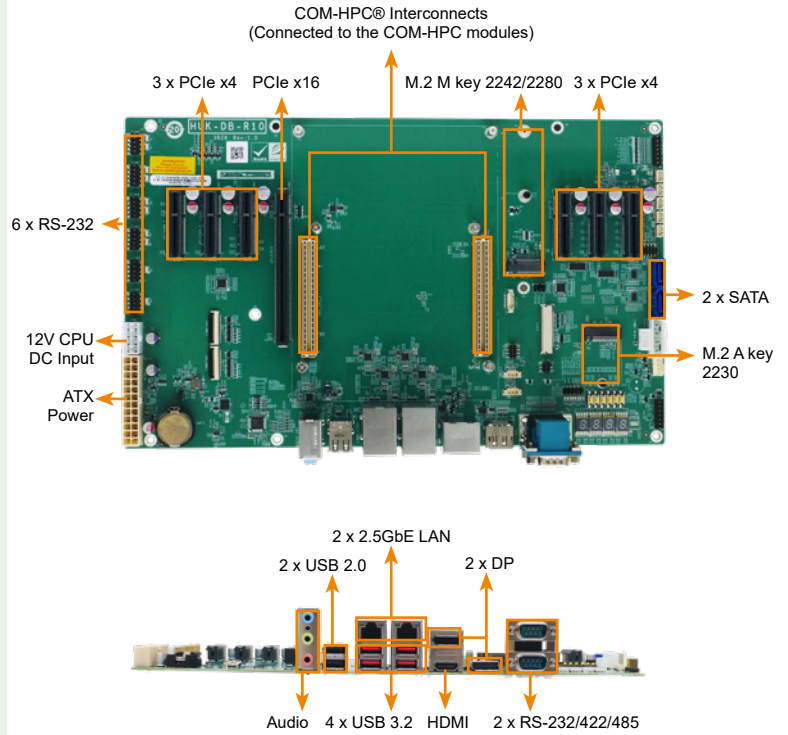
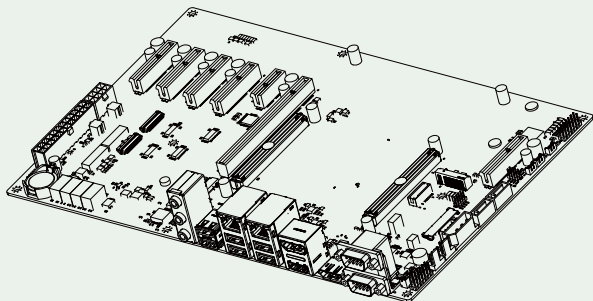
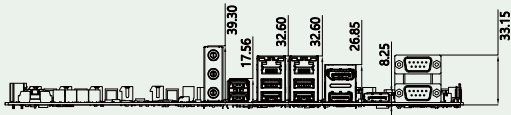
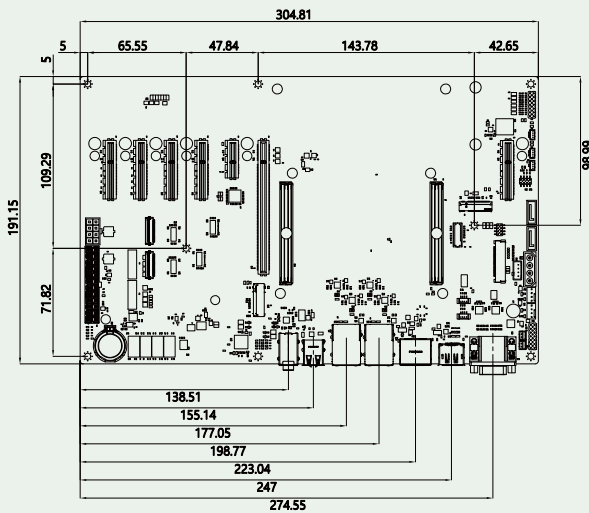
32102-000100-200-RS

Optional Accessories

HUK-DB-R10	COM-HPC BACKPLANE
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P

HUK-DB

Dimensions



Specifications

Model	HUK-DB	
Compatible Models	COM-HPC Size A Module (95 x 120mm), B Module (120 x 120mm) and C Module (120 x 160mm)	
Display	1 x eDP 1 x HDMI 1.4 up to 4096 x 2304 @30Hz 2 x DP 1.2 up to 4096 x 2304 @60Hz	
Ethernet	2 x RJ45 (2.5GbE)	
External I/O	6 x RS-232 1 x General Purpose SPI Port (2 x4 pin, P=2.0) 1 x 12-bit DIO (2*7 pin, P=2.54) 2 x SATA 6Gb/s	
Internal I/O	1 x General Purpose SPI Port (2 x4 pin, P=2.0) 1 x 12-bit DIO (2*7 pin, P=2.54) 2 x SATA 6Gb/s	
Expansion	1 x PCIe Gen5 x16 4 x PCIe Gen4 x4 1 x PCIe Gen3 x4	1 x PCIe Gen3 x4 (x2signal) 1 x M.2 M Key 2242/2280 (PCIe Gen3 x2) 1 x M.2 A Key 2230 (USB2.0&PCIe Gen3 x2)
MIPI	2 X MIPI CSI CONN	
AUDIO	1 x Realtek ALC888S HD codec / 1 x I2S Audio (Line-in, Line-out, Mic) 1 x Soundwire Audio (2 x 4 pin header) 2 x DMIC connector	
Front Panel	1 x Front_Panel (2*7 pin) (Power LED, HDD LED, Speaker (Buzzer), Power Button, Reset Button)	
I2C	2 x 4-pin wafer	
SMBus	1 x 4-pin wafer	
FAN connector	1 x System fan connector (1x4 pin)	
Power Supply	12V DC Input	
Temperature	-10°C ~ 60°C	
Humidity	5% ~95 non-condensing	
Dimensions	315mm x 190mm	
Certification	CE/FCC compliant	