

INTEL CORE ULTRA SERIES 2 REFERENCE KIT



AXMB-D150

HIGHLIGHT FEATURES

- Features Intel Core Ultra 7 Processor 265H, delivering 97 TOPS for edge AI computing
- Equipped with Intel Core Ultra Series 2 platform-certified components:
 - Innodisk 16GB (2 x 8GB) DDR5 6400 MT/s CSODIMM memory
 - Innodisk 4TG2-P series 512GB PCIe Gen 4 x4 M.2 SSD
 - Innodisk MIPI over Type-C camera, supports 8MP resolution at 30fps
- Mini-ITX form factor (170 x 170mm)

SPECIFICATIONS

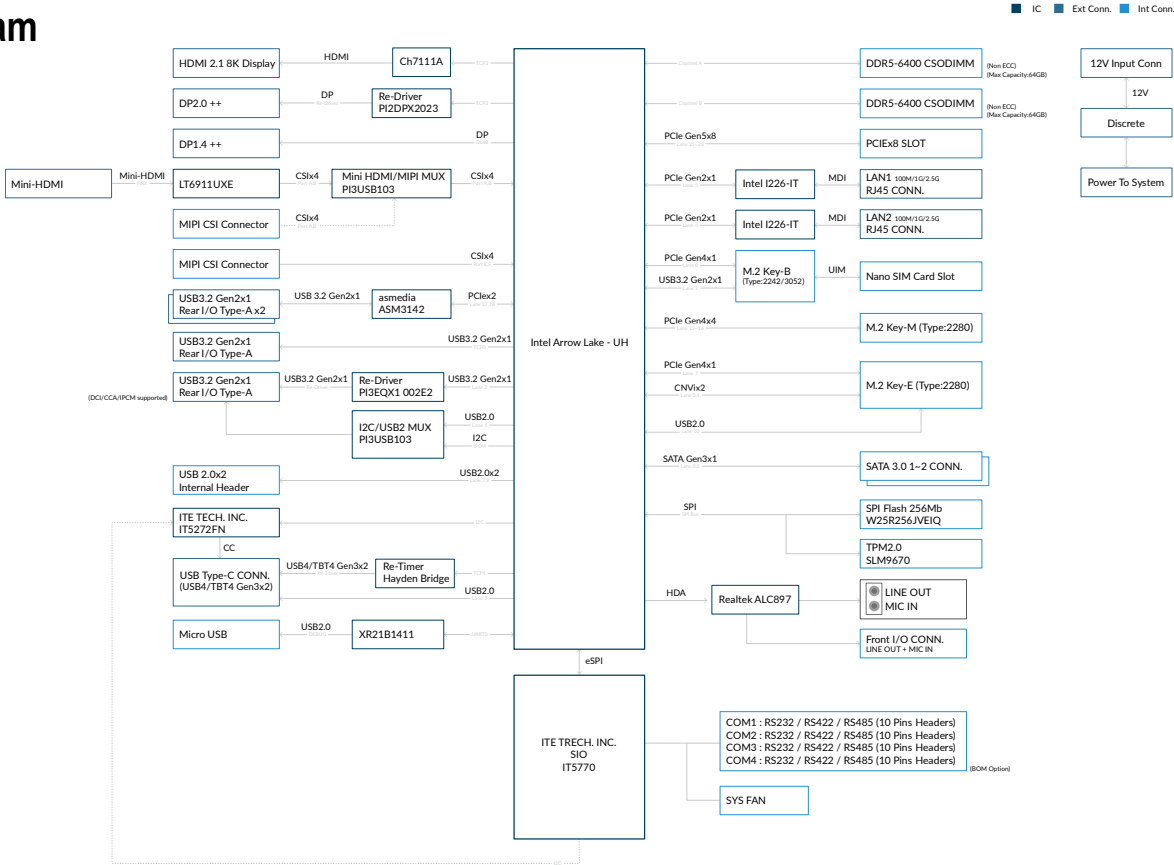
Platform	Intel CPU	Core Ultra 7 Processor 265H
	Cores (P+E+LPE)	16C (6P + 8E + 2LPE)
	Threads	16
	Max. Frequency	5.3GHz
	Cache	24MB
	CPU TDP	28W
	BIOS	Insyde SPI 256Mbit
AI accelerator	AI Engine	Intel AI Boost up to 97 TOPS via (CPU+GPU+NPU)
Memory	Technology/ Socket	DDR5 6400MT/s, 2 x 262pin DDR5 CSODIMM
	Max. Capacity	64GB (up to 32GB per slot) (2 x 8GB, total 16GB pre-installed)
Graphics	Controller	Intel Arc 140T GPU
	Graphic Engine	Hardware Decode: 8K60 12b HEVC/VP9/SCC, 8K30 10b AV1, 5K60 10b HEVC/VP9/SCC, 4K60 8b AVC
		Hardware Encode: 8K30/5K60 8/10b HEVC/VP9/SCC, 4K60 10b HEVC/VP9/SCC, 4K60 8b AVC
Displays	HDMI 2.1 (8K@60Hz)	1
	DP++ 2.0 (8K@60Hz)	1
	DP++ 1.4 (4K@60Hz)	1
	DPoC (DP 2.1) (8K@60Hz)	1
Ethernet	LAN (Intel I226 2.5Gbps)	2
Expansion Slots	M.2 2242/3052 B Key	1 x (PCIe Gen 4 x1/USB 3.0), with Nano SIM socket
	M.2 2280 M Key	1 x (PCIe Gen 4 x4); 512GB M.2 SSD pre-installed
	M.2 2230 E Key	1 x (PCIe Gen 4 x1/USB 2.0/CNVi)
	PCIe x8	1 x (PCIe Gen 5)
External I/O	USB4 (40Gbps)	1 (Thunderbolt 4 support PD 15W 5V@3A)
	USB 3.2 Gen 2x1 (10Gbps)	4
	Audio (Realtek ALC897)	1 x Mic-in, 1 x Line-out
	HDMI-In (micro-HDMI)	1
Internal I/O	SATA	2 x 2.5" SATA III SSD/HDD
	COM1	RS232/422/485
	COM2	RS232/422/485
	COM3	RS232/422/485
	COM4	RS232/422/485
	MIPI over Type-C	2 (x4 Lane); 1 x MIPI over Type-C cameras pre-installed
	USB 2.0	2
Power	Power Input Voltage	DC 12V
	Power Connector Type	DC DIN 4pin; ATX 8-pin
Environment	Operating Temperature	0°C~60°C
	Storage Temperature	-40 °C ~85 °C
	Operating Humidity	90% at 40 °C Relative humidity, non-condensing

Watchdog Timer	Interval	Programmable from 1 to 255 Seconds
Security	TPM 2.0	dTPM2.0 (Hardware, Infineon:SLM9670AQ2.0)
Physical Characteristics	Dimension L x W (mm)	170 x 170
	Net Weight/Gross Weight (KG)	0.4 KG/ 1.4KG
Operating System	Microsoft Windows 11 IoT Enterprise 2021 LTSC	
Regulation	Safety	CE/FCC/RoHS/UKCA

ORDER INFORMATION

Part No.	Intel CPU	COM	LAN	USB	Display	SATA	M.2	Operating Temp.
AXMB-D150-A00	Core Ultra 7 265H	4	2	1 x USB4 4 x USB 3.2 Gen 2x1 2 x USB 2.0	HDMI 2.1 DP++ 2.0 DP++ 1.4 DPoC (DP 2.1)	2	3 (B+M+E)	0°C~60°C

Block Diagram



PACKING LIST

Part Number	Description	Q'ty
AXMB-D150-A00	AXMB-D150 motherboard	1
9Z0000000210	45W CPU Cooler	1
R0EV8C-OOM1-RHCF-11	MIPI over Type-C 8MP Camera	1
R1APAC-MP02-A00	ARL Type-C Adapter Board for MIPI Camera	1
7W2000000300	Type C to Type C MIPI Cable	1
7W4000000130	SATA cable	1
7W4000000110	SATA PWR cable	1
7SW1-M2003511SN	M.2 screw	3
9Z9000000300	180W Power Adapter	1
7W8000000070/90	Power Cord, Standards(UK/US) 1.8m	1

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