ADLINK
LEADING EDGE AI COMPUTING

SBC35-MTL

3.5" Single Board Computer with Intel® Core™ Ultra Processors (Series 1)

Features

- Intel® Core™ Ultra Processor delivers efficient, high-performance computing.
- Integrated NPU enhances AI processing capabilities for real-time applications.
- Reserved MIPI-CSI Signal Pathway for camera Integration.



Windows

Ordering Information

PN	Model Name	CPU	Memory	DP	HDMI	LCD	USB Type-C	LAN	COM	SATA	USB2.0	USB3.0	M.2	SBC-FM	TPM
91-47301-00	SBC35-MTL	125H	2x DDR5 SO-DIMM 5600 MHz	1	1	eDP	1	2	2	1	3	2	3	Support	Support (option)

Packing Lists

PN	Description	QTY
91-47301-00	SBC35-MTL	1
58-10515-0000	M.2 screw kit	1
58-10514-0000	Thermal kit	1

Embedded OS

PN	Description
92-56094-0010	Windows 10 IoT Ent LTSC 2021 High End PKEA
92-56094-2010	Windows 10 IoT Ent LTSC 2021 Value PKEA
92-56094-4010	Windows 10 IoT Ent LTSC 2021 Entry PKEA
92-56101-0010	Windows 11 IoT Ent High End PKEA
92-56101-2010	Windows 11 IoT Ent Value PKEA
92-56101-4010	Windows 11 IoT Ent Entry PKEA

Optional Accessories

PN	Description
32-21014-1000-A0	CPU cooler for 28W CPU
32-21015-1000-A0	Passive Heatsink for 15W CPU
30-21363-0000-A0	USB 2.0 Type A connectorx1
30-22139-2000-A0	RS-232/RS-485/RS-422x2
30-21535-6000-A0	GPIO +Audio +USB 2.0x2
30-22121-0000-A0	SATA+ SATA Power
30-22224-0000-A0	AFM PWR Cable
30-22238-0000-A0	2x2P to DC JACK Cable
91-49076-0010	SBC35-MTL LVDS FPC

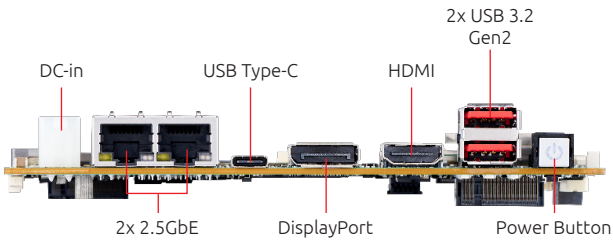
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Specifications

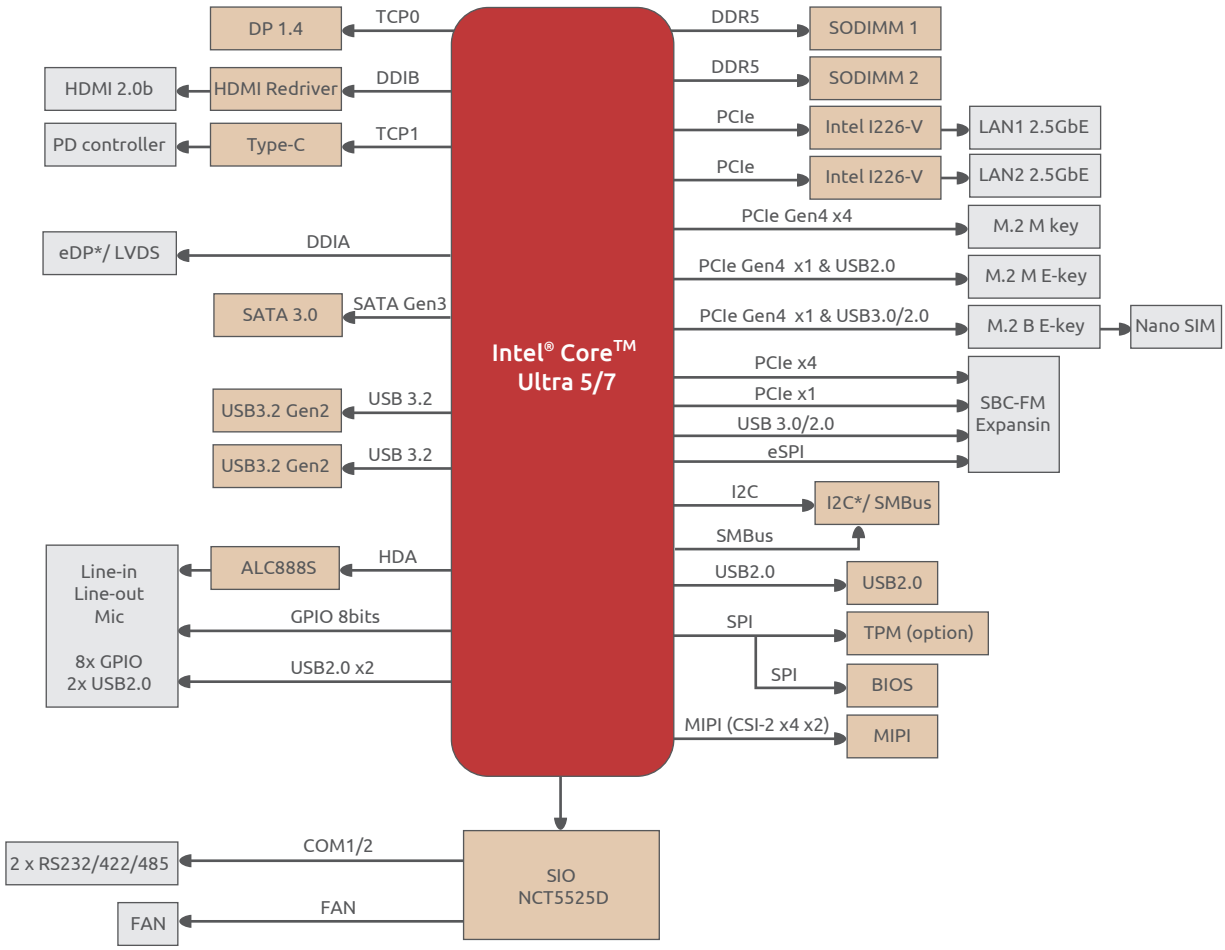
Model	SBC35-MTL
Processor System	
CPU	MTL-U, 15W /MTL-H, 28W
Memory	2x DDR5 SO-DIMMs 5600MHz, up to 96 GB, non-ECC
OS Support	Win10/ Win11 24H2 LTSC Ubuntu 22.04LTS (support by project)
Display	
VGA	-
HDMI	1x HDMI2.0
DisplayPort	1x DP1.4
LVDS/ eDP	eDP x1 (LVDS through RPL driving board)
Type-C	1
Number of Displays	4 (HDMI, DP, Type-C, LVDS/eDP)
Ethernet	
Gbe Port	2
Controller/ Frequency	2x Intel® I226V, 2.5Gps / 1Gbps/ 100Mbps / 10Mbps
I/O Interfaces	
USB	2x USB 3.2 Gen 2x1 ports (10Gbps) (rear I/O) 2x USB 2.0 through 30pin header 1x USB 2.0 via headers
USB Type-C	1x USB TYPE-C (USB 3.2, DP, Power delivery 5V, 3A)
COM	2x RS-232/422/485 pin headers
Serial ATA	1x SATA 6Gb/s ports w/ 5V SATA power
Audio	Realtek ALC888S 1x line-in, 1x line-out, MIC-in through 30pin header
Expansion Slots	1x M.2 2280 M Key (PCIex4) 1x M.2 2230 E Key (PCIe Gen 4x1, USB) 1x M.2 3042 B-key (USB3.0/2.0, PCIex1) w/ SIM card
TPM	TPM2.0 (option)
DI/ DO	GPIO 8-bit through 30pin header
FM board expansion	
PCIex1	1
PCIex4	1 (up to Gen3)
USB 3.0/2.0	1
LPC	-
eSPI	1
Mechanical and Environmental	
Dimension	5.75" x 4" (146mm x 102mm)
Operating Temperature	0 to 60 °C
Storage Temperature	-40°C to 85°C
Power Supply	12V-24V connector type: 2x2 connector + DC JACK co-lay
ESD	Contact +/-8 KV, Air +/-12 KV
Certification	
	CE & FCC Class B

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Product Illustration



Block Diagram



*Default by BOM change, contact with your local sales to support option.

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CPU Support List

Family	Number	CPU Core	Frequency	Processor Base Power
Meteor Lake U/H	125H	14 Core	4.5GHz	28W
	125U	12 Core	4.3GHz	15W
	155U	12 Core	4.8GHz	15W
	155H	16 Core	4.8GHz	28W

*For the non-standard skus, we support by project based. Please contact with local sales in detail.

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