

SBC35-MTL

3.5" Single Board Computer with Intel® Core™ Ultra Processors

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.

Preliminary



Ordering Information

TBD

Packing Lists

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

Optional Accessories

TBD

Embedded OS

TBD

Specifications

Model	SBC35-MTL
Processor System	
CPU	MTL-U, 15W /MTL-H, 28W
Memory	
DIMM Type/ Frequency	2x DDR5 SO-DIMMs, up to 5600MHz
Max. Capacity	96 GB
ECC	-
Display	
VGA	-
LVDS/ eDP	eDP x1 (LVDS through RPL driving board)
HDMI	1x HDMI2.0
DisplayPort	1x DP1.4
Number of Displays Supported	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 rear I/O 1x USB 2.0 via headers
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
I2C/SMBUS	1 (default I2C)
MIPI-CSI	
	2channel x4 (50pin)
Expansion Slots	
M.2	1. M.2 2280 M Key (PCIex4) 2. M.2 2230 E Key with (Wi-Fi/PCIe Gen 4x1), (USB) 3. M.2 3042/ 3052 B-key (USB3.0/2.0, PCIe) w/ SIM card
TPM	
	Yes (TPM 2.0, option)
GPIO	
	GPIO 8-bit
Form Factor	
Dimension	5.75" x 4" (146mm x 102mm)
OS Support	
	Win10/ Win11 24H2 LTSC Ubuntu 22.04LTS (support by project)
Power Supply	
	12V-24V connector type: 2x2 connector + DC JACK co-lay
Temp.	
	0 to 60 degree
SBC-FM	
I/O interface	PCIex1 PCIex4 (up to Gen3) USB 3.0/2.0 eSPI

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