

SBC-12001

Intel® Core™ Ultra Processor, 3.5 SBC Motherboard



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.
- 2x DDR5 SO-DIMMs 5600MHz, up to 96 GB, non-ECC.

SBC-12001	
PROCESSOR	Intel® Core™ Ultra Processor
MEMORY	2x DDR5 SO-DIMMs 5600MHz, up to 96 GB, non-ECC
NUMBER OF DISPLAYS	4 (HDMI, DP, Type-C, LVDS/eDP)
PCIe	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
AUDIO	Realtek ALC888S 1x line-in, 1x line-out, MIC-in through 30pin header
ETHERNET	2x Intel® I226V, 2.5Gps / 1Gbps/ 100Mbps / 10Mbps, Gbe Port
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
HDMI	1x HDMI2.0
DP	1x DP1.4
eDP, LVDS	eDP x1 (LVDS through RPL driving board)
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
SIM CARD	1
TPM	TPM2.0 (option)
eSPI	1
DIMENSION	5.75" x 4" (146mm x 102mm)
POWER SUPPLY	12V-24V connector type: 2x2 connector + DC JACK co-la
OS SUPPORT	Win10/ Win11 24H2 LTSC Ubuntu 22.04LTS (support by project)
OPERATING TEMPERATURE	0 to 60 °C
STORAGE TEMPERATURE	-40°C to 85°C
ESD	Contact +/-8 KV, Air +/-12 KV
CERTIFICATIONS	CE & FCC Class B
WARRANTY	2 Years