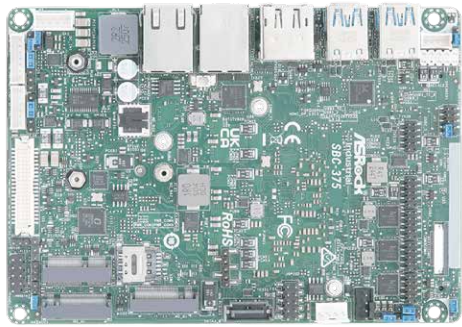


SBC-375

3.5" SBC Motherboard



KEY FEATURES

- Intel® Core™ Ultra processors (Meteor Lake-H)
- 1 x 262-pin SO-DIMM DDR5 5600 MHz, up to 48GB
- 1 x PCIe x1 (Gen3), 2 x USB 3.2 Gen2x2, 2 x USB 3.2 Gen2, 4 x USB 2.0, 1 x M.2 Key E, 2 x M.2 Key M, 1 x M.2 Key B, 3 x COM, 1 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.1 TMDS, 3 x DP 1.4a (2 from Type-C), 1 x LVDS or eDP
- TPM 2.0 onboard IC
- Supports Intel® vPro, VMD RAID 0/1
- 12~36V DC-In PWR/ 12V DC-In only (BOM option)

SPECIFICATIONS

Form Factor

Dimensions	3.5" SBC (5.8-in x 4-in x 0.94-in, 14.7 cm x 10.2 cm x 2.40 cm)
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Processor System

CPU	Intel® Core™ Ultra processors (Meteor Lake-H) SBC-375P (Ultra7 155H, 6P+8E) SBC-375M (Ultra5 125H, 4P+8E)
BIOS	AMI SPI 256 Mbit

Memory

Technology	Single Channel DDR5 5600 MHz
Capacity	48GB
Socket	1 x 262-pin SO-DIMM

Graphics

Controller	Intel® Arc™ Graphics
HDMI	HDMI 2.1 Max resolution up to 4096 x 2160@60Hz
DisplayPort	DP 1.4a Max resolution up to 4096 x 2160@60Hz
LVDS	Dual channel 24 bit up to 1920 x 1200@60Hz (Connector shared with eDP)
eDP	Max resolution up to 1920 x 1080@60Hz (Connector shared with LVDS)
MultiDisplay	Quad display (Included 2 output from Type-C)

Expansion Slot

PCIe	1 x PCIe x1 Gen3 (supports up to 10W)
M.2	1 x M.2 (Key E, 2230) with PCIe Gen4 x1, USB 2.0 and CNVi for Wireless 1 x M.2 (Key B, 3042/3052) with PCIe Gen4 x1, USB 3.2 Gen1, USB 2.0 and SIM for 4G/5G
SIM Socket	1 x SIM socket connected to M.2 key B

Audio

Interface	Realtek ALC256 HD, High Definition Audio.
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Ethernet

Controller/ Speed	LAN1: Intel® I226LM with 10/100/1000/2500 Mbps, supports vPro LAN2: Intel® I210AT with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O

HDMI	1 x HDMI 2.1 TMDS
DisplayPort	1 x DP 1.4a
Ethernet	1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 2 x USB 3.2 Gen2 x2 (Type-C, 5V/3A, support DP 1.4a display output)

Internal Connector

USB	4 x USB 2.0 (2 x 2.00mm pitch header)
COM	COM3, COM4, COM5 (RS-232/422/485)
GPIO	4 x GPI, 4 x GPO
LVDS	1 (Connector with LVDS/eDP signal, switch by BIOS)
SATA PWR Output	1
Speaker Header	1
MIPI Camera Header	1

Storage

M.2	1 x M.2 (Key M, 2242/2280) with PCIe Gen4 x4 for SSD 1 x M.2 (Key M, 2242) with PCIe Gen4 x4 for SSD
SATA	1 x SATA3 (6Gb/s)
RAID	Intel® VMD RAID 0/1 **supported by PCIe interface PCIe interface: M.2 Key B + M.2 Key M1/2 or 2* M.2 Key M

Security

TPM	TPM 2.0 onboard IC
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Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	12~36V DC-In with 4-pin wafer PWR cable 12V DC-In only (BOM option)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	-20°C ~ 70°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

BLOCK DIAGRAM

