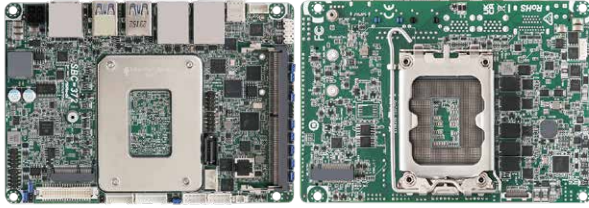


KEY FEATURES

- Intel® Alder Lake-PS MCP Processors
- 1 x 262-pin SO-DIMM DDR5 4800 MHz, up to 32GB
- 1 x USB4/Thunderbolt™4, 4 x USB 3.2 Gen2, 4 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 2 x COM, 1 x SATA3
- 1 x Intel 2.5 Gigabit LAN, 1 x Intel 1 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0b, 2 x DP 1.4a (1 from Type-C), 1 x LVDS or eDP
- TPM 2.0 onboard IC
- Support Intel® vPro
- 12~28V DC-In PWR



SPECIFICATIONS

Form Factor

Dimensions	3.5" SBC (5.8-in x 4-in x 1.2-in, 14.7 cm x 10.2 cm x 2.95 cm)
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Processor System

CPU	Intel® Alder Lake-PS Core™ Processors, up to 45W
Socket	LGA 1700
BIOS	AMI SPI 256 Mbit
Secure Flash	AMI SPI 32Mbit (Optional)

Memory

Technology	Dual Channel DDR5 4800 MHz
Capacity	32GB
Socket	1 x 262-pin SO-DIMM

Graphics

Controller	Intel® Iris® Xe Graphics
HDMI	HDMI 2.0b Max resolution up to 4096 x 2160@60Hz
DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096x2160@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 1 output from Type-C)

Expansion Slot

M.2	1 x M.2 (Key E, 2230) with PCIe x1 and USB 2.0 for Wireless
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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 2.0b
DisplayPort	1 x DP 1.4a++
Ethernet	1 x 1 Gigabit LAN 1 x 2.5 Gigabit LAN
USB	4 x USB 3.2 Gen2 1 x USB4/Thunderbolt™4 (5V/3A, Support DP 1.4a display output) * For Thunderbolt support, please refer to support list.

Internal Connector

USB	4 x USB 2.0 (2x2.00 pitch header)
COM	COM1, COM2 (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

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe Gen4x4 for SSD
SATA	1 x SATA3 (6Gb/s)

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	12~28V DC-In with 4-pin wafer PWR
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	0°C ~ 70°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

BLOCK DIAGRAM

