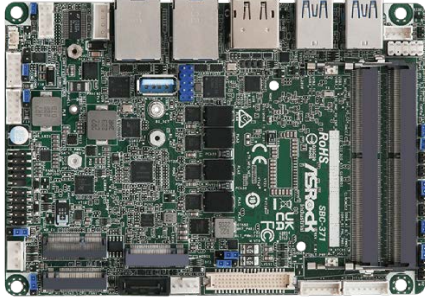


# SBC-371

3.5" SBC Motherboard



## KEY FEATURES

- Intel® 13th Gen Raptor Lake-P Processors
- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 64 GB (32GB per DIMM)
- 1 x PCIe x1 (Gen3), 2 x USB 3.2 Gen2x2, 3 x USB 3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x M.2 Key B, 3 x COM, 1 x SATA3
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0b, 3 x DP 1.4a (2 from Type-C), 1 x LVDS or eDP
- TPM 2.0 onboard IC
- Supports Intel® vPro (SBC-371P/SBC-371M), 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® 13th Gen (Raptor Lake-P) Core™ Processors SBC-371P (i7-1365UE, 2P+8E) SBC-371M (i5-1335UE, 2P+8E) SBC-371V (i3-1315UE, 2P+4E)
BIOS	AMI SPI 256 Mbit

### Memory

Technology	Dual Channel DDR4 3200 MHz
Capacity	64GB (32GB per DIMM)
Socket	2 x 260-pin SO-DIMM

### Graphics

Controller	Intel® Iris® Xe Graphics
HDMI	HDMI 2.0b 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 Gen3 x1, USB 2.0 and CNVi for Wireless 1 x M.2 (Key B, 3042/3052) with PCIe Gen3 x1 or SATA3 and USB 3.2 and 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. Line-out, Mic-in
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### Ethernet

Controller/ Speed	SBC-371P/SBC-371M LAN1: Intel® I226LM with 10/100/1000/2500 Mbps, supports vPro LAN2: Intel® I226V with 10/100/1000/2500 Mbps SBC-371V LAN1: Intel® I226LM with 10/100/1000/2500 Mbps LAN2: Intel® I226V with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

### Rear I/O

HDMI	1 x HDMI 2.0b
DisplayPort	1 x DP 1.4a
Ethernet	2 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 2 x USB 3.2 Gen2x2 (Type-C, 5V/3A, support DP 1.4a display output)

### Internal Connector

USB	1 x USB 3.2 Gen2 2 x USB 2.0 (1x2.54 pitch header)
COM	COM1, COM3, COM4 (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 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 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

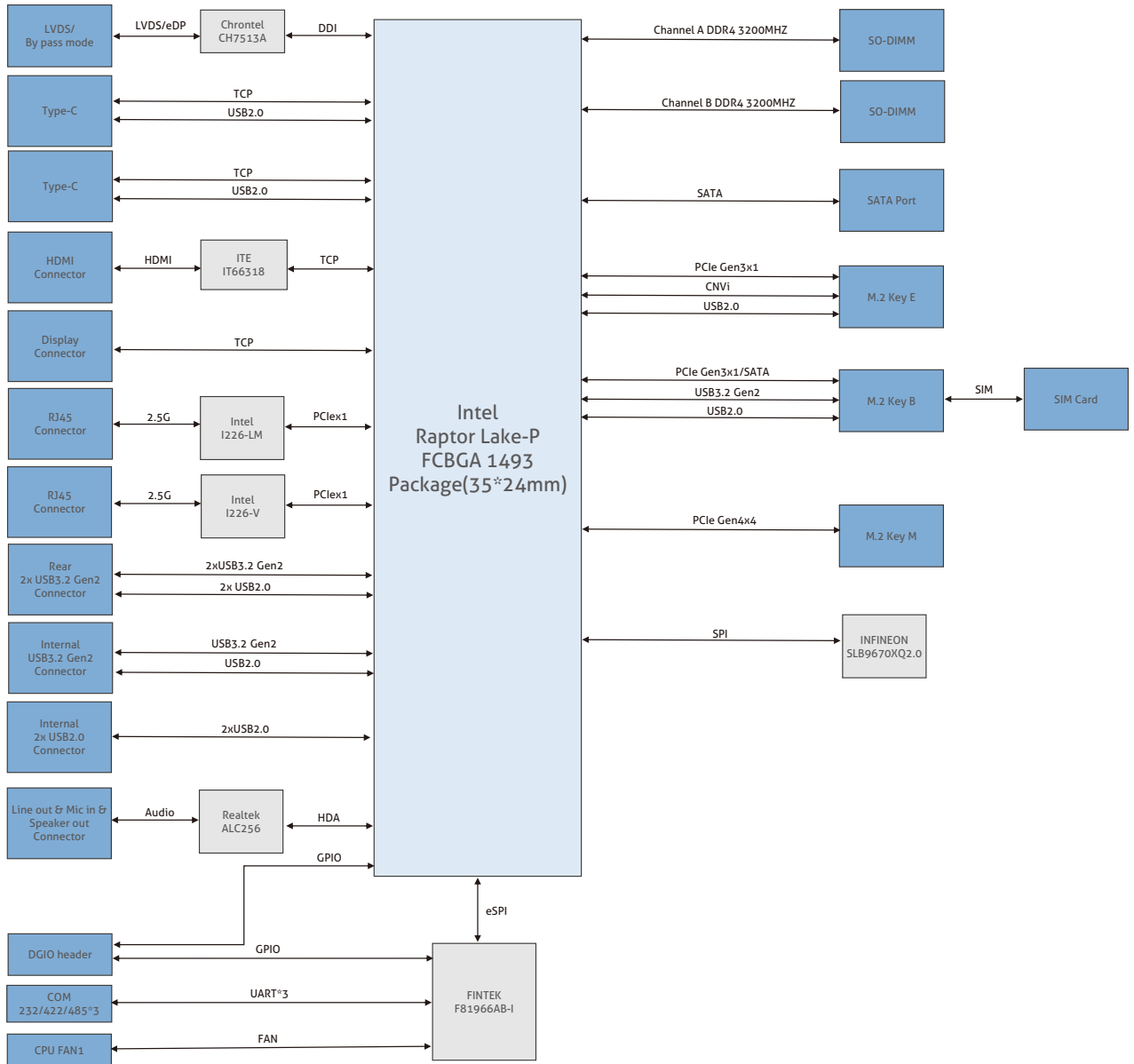
Operating Temp	-20°C ~ 70°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%



# SBC-371

3.5" SBC Motherboard

## BLOCK DIAGRAM



The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660