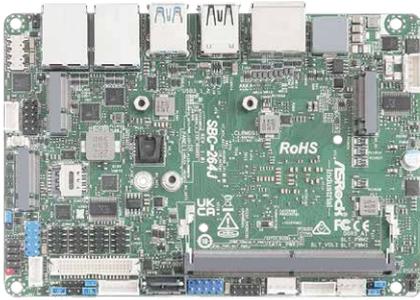


SBC-264J

3.5" SBC Motherboard



KEY FEATURES

- Intel® Alder Lake-N Processors
- 1 x 262-pin SO-DIMM DDR5 4800 MHz, up to 32GB
- 3 x USB 3.2 Gen2, 5 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 1 x M.2 Key B, 4 x COM, 1 x SATA3
- 2 x Realtek 2.5 Gigabit LAN
- Supports Triple display, 2 x HDMI 2.0b, 1 x LVDS or eDP
- 9~36V DC-In



SPECIFICATIONS

Form Factor

| | |
|------------|---|
| Dimensions | 3.5" SBC (5.8-in x 4-in x 1.02-in, 14.7 cm x 10.2 cm x 2.60 cm) |
|------------|---|

Processor System

| | |
|------|---|
| CPU | Intel® Alder Lake-N SoC Processors SBC-264J (N97, QC, Max Speed Up to 3.6GHz, 12W) <small>*For other CPU SKUs request, please contact regional Sales for availability</small> |
| BIOS | AMI SPI 256 Mbit |

Memory

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

Graphics

| | |
|--------------|---|
| Controller | Intel® UHD Graphics |
| HDMI | HDMI 2.0b 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 | Triple display |

Expansion Slot

| | |
|------------|---|
| 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, 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. |
|-----------|---|

Ethernet

| | |
|-------------------|--|
| Controller/ Speed | LAN1: Realtek RTL8125BG with 10/100/1000/2500 Mbps LAN2: Realtek RTL8125BG with 10/100/1000/2500 Mbps |
| Connector | 2 x RJ-45 |

Rear I/O

| | |
|----------|---------------------------------|
| HDMI | 2 x HDMI 2.0b |
| Ethernet | 2 x 2.5 Gigabit LAN |
| USB | 3 x USB 3.2 Gen2 1 x USB 2.0 |

Internal Connector

| | |
|-----------------|--|
| USB | 4 x USB 2.0 (2 x 2.54 pitch header) |
| COM | COM2, COM3, COM4 (RS-232) COM1 (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 |
| I2C Header | 1 |

Storage

| | |
|------|--|
| M.2 | 1 x M.2 (Key M, 2242/2280) with PCIe Gen3 x1 and SATA3 and USB 2.0 for SSD |
| SATA | 1 x SATA3 (6Gb/s) |

Security

| | |
|-----|--------------------------|
| TPM | TPM Header Intel® PTT |
|-----|--------------------------|

Watchdog Timer

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

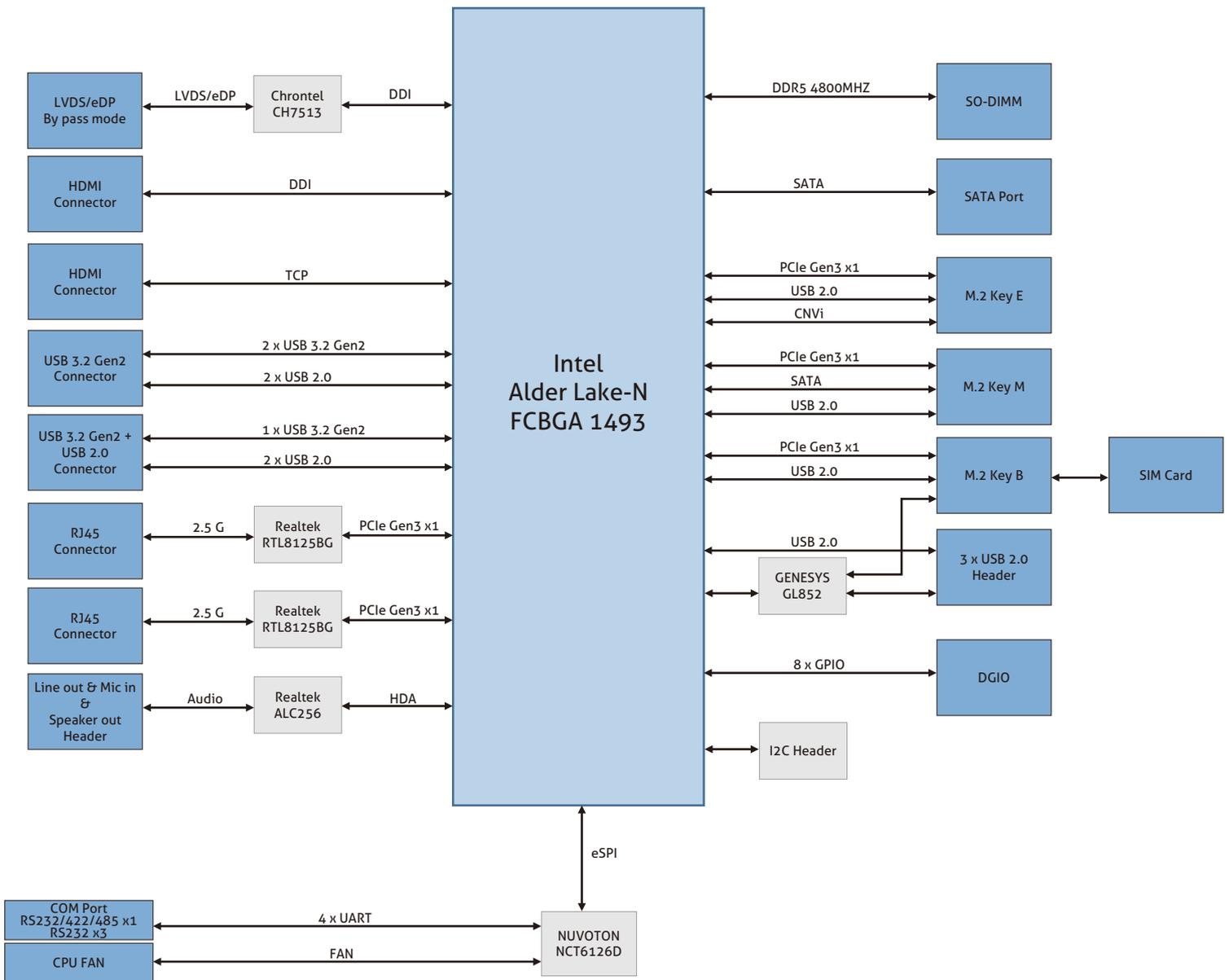
Power Requirements

| | |
|-----------|---|
| Input PWR | 9~36V DC-In 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% (non-condensing) |
| Storage Humidity | 5% ~ 90% (non-condensing) |

BLOCK DIAGRAM

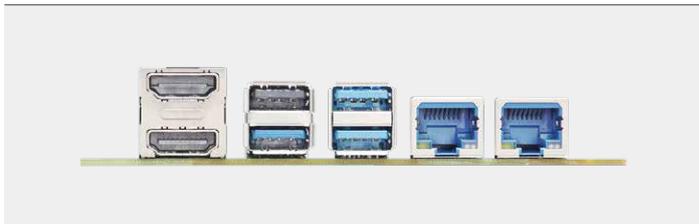


ORDERING INFORMATION

Ordering Information

| | |
|-------------|----------|
| Model | SBC-264J |
| CPU | N97 |
| HDMI | 2 |
| LVDS/eDP | 1/ (1) |
| 2.5 Gbe LAN | 2 |
| COM | 4 |
| USB 3.2 | 3 |
| USB 2.0 | 5 |
| SATA III | 1 |
| M.2 E-Key | 1 |
| M.2 B-Key | 1 |
| M.2 M-Key | 1 |
| TPM | FW TPM |

I/O View



Packing List (Gift)

| Description | Quantity |
|--------------------|----------|
| Heatsink | 1 |
| SATA Power Cable | 1 |
| COM Cable | 2 |
| SATA Data Cable | 2 |
| DC-in Cable | 1 |
| SCREW M3*2.5 | 3 |
| 2.00mm MINI JUMPER | 1 |

Packing List (Bulk)

| Description | Quantity |
|--------------------|----------|
| SCREW M3*2.5 | 3 |
| 2.00mm MINI JUMPER | 1 |