

Coming  
Soon

KEY FEATURES

- Intel® Core™ Ultra Series 3 Processors (Panther Lake-H)
- 2 x 262-pin SO-DIMM DDR5 7200/6400 MHz, up to 128GB (64GB per DIMM)
- 1 x USB 3.2 Gen2x2, 2 x USB 3.2 Gen2, 6 x USB 2.0, 1 x M.2 Key E, 2 x M.2 Key M, 3 x COM
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 2 x HDMI 2.1, 1 x DP 1.4a (1 from Type-C), 1 x LVDS or eDP, 1 x eDP 1.4b
- Supports Intel® vPro Essentials, VMD RAID 0/1
- 12~36V DC-In PWR/ Supports Type-C PD 100W

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) |
|------------|---|

Processor System

|      |  |
|------|--|
| CPU  | Intel® Core™ Ultra Series 3 Processors (Panther Lake-H)<br>SBC-377P (Ultra X7 358H, 4P+8E+4LPE)<br>SBC-377E (Ultra 5 325, 4P+4LPE) |
| BIOS | AMI SPI 256 Mbit   |

Memory

|            |  |
|------------|--|
| Technology | Dual Channel DDR5 7200 MHz (Ultra X7 358H)<br>Dual Channel DDR5 6400 MHz (Ultra 5 325) |
| Capacity   | 128GB (64GB per DIMM)  |
| Socket     | 2 x 262-pin SO-DIMM  |

Graphics

|              |   |
|--------------|---|
| Controller   | Intel® Graphics   |
| HDMI         | HDMI 2.1<br>Max resolution up to 4096 x 2160@60Hz   |
| LVDS         | Dual channel 24 bit up to 1920 x 1200@60Hz<br>(Connector shared with eDP)*  |
| eDP          | eDP 1.4b<br>Max resolution up to 4096x2160@60Hz<br>Max resolution up to 1920 x 1080@60Hz<br>(one eDP single 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 Gen4 x1, USB 2.0 and CNVi for Wireless |
|-----|--|

Audio

|           |   |
|-----------|---|
| Interface | Realtek ALC256 HD, High Definition Audio. |
|-----------|---|

Ethernet

|                   |  |
|-------------------|--|
| Controller/ Speed | LAN1: Intel® I226LM with 10/100/1000/2500 Mbps, supports vPro<br>LAN2: Intel® I226V with 10/100/1000/2500 Mbps |
| Connector         | 2 x RJ-45  |

Rear I/O

|          |   |
|----------|---|
| HDMI     | 2 x HDMI 2.1  |
| Ethernet | 2 x 2.5 Gigabit LAN   |
| USB      | 2 x USB 2.0<br>2 x USB 3.2 Gen2<br>1 x USB 3.2 Gen2x2 (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) |
| eDP             | 1  |
| SATA PWR Output | 1  |
| Speaker Header  | 1  |

Storage

|      |  |
|------|--|
| M.2  | 1 x M.2 (Key M, 2242/2280) with PCIe Gen5 x4 for SSD<br>1 x M.2 (Key M, 2242/3052) with PCIe Gen4 x4 for SSD |
| RAID | Intel® VMD RAID 0/1<br>**supported by PCIe interface<br>PCIe interface: 2* M.2 Key M                         |

Security

|     |   |
|-----|---|
| TPM | TPM 2.0 onboard IC (Optional)<br>Intel® PTT |
|-----|---|

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<br>12V DC-In only (BOM option)<br>USB Type-C PD (Power Delivery) 100W             |
| Power On  | AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- 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) |