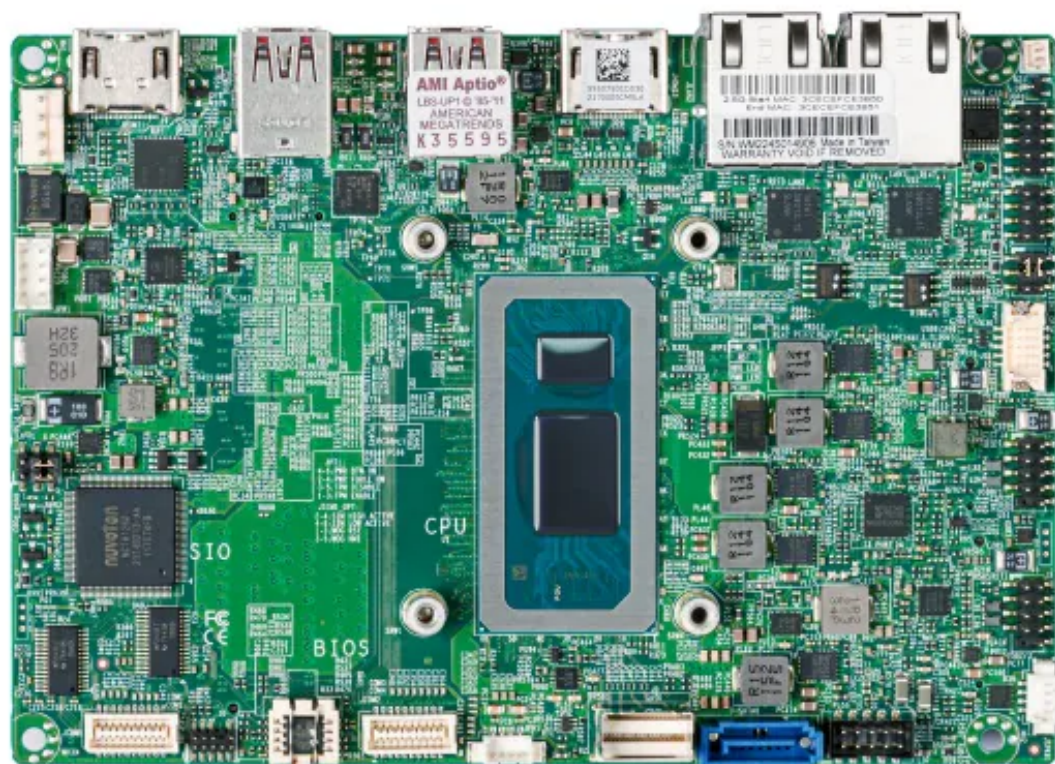


# X13SRN-H-WOHS **New**



**Embedded vPro support**  
**4 Independent Displays**  
**Fanless**

### Key Features

1. First performance hybrid architecture from Intel
2. 4 independent display with 4K resolution
3. Fast AI hardware acceleration
4. Up to 96 EU with Intel® Iris® Xe graphics capable of 4K60 resolution
5. Next gen interface: DDR5-4800 MHz and PCIe Gen4 x4 by SlimSAS and M.2
6. High speed connectivity through dual 2.5GbE
7. 100% wide temp grade design and components applied
8. 12-24V wide range power with RVP and TVS
9. Rich I/O and expansion: 4 COM, 9 USB, audio with AMP, triple M.2
10. Hailo-8™ powerful and efficient Edge AI solution integration ready

...

### Optimized Servers

[SYS-E102-13R-H](#)

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### Specifications

### Resources

### Parts List

#### Product SKUs

**MBD-X13SRN-H-WOHS**

#### Physical Stats

|                    |                              |
|--------------------|------------------------------|
| <b>Form Factor</b> | 3.5" SBC                     |
| <b>Dimension</b>   | 5.7" x 4" (14.6cm x 10.16cm) |

#### Processor

|             |   |
|-------------|---|
| <b>CPU</b>  | 13th Generation Intel® Core™ i7-1370PE Processor Single Socket FCBGA-1744 supported, CPU TDP supports Up to 28W TDP |
| <b>Core</b> | Up to 14 cores, 20 threads / 24MB Cache   |

#### System Memory

|                        |   |
|------------------------|---|
| <b>Memory Capacity</b> | 2 DIMM slots<br>Up to 64GB Unbuffered non-ECC SODIMM, DDR5-4800MT/s |
| <b>Memory Type</b>     | 4800 MT/s non-ECC DDR5 SODIMM Unbuffered                            |
| <b>DIMM Sizes</b>      | 8GB, 16GB, 32GB   |
| <b>Memory Voltage</b>  | 1.1V  |

#### On-Board Devices

|                            |  |
|----------------------------|--|
| <b>Chipset</b>             | System on Chip   |
| <b>SATA</b>                | Intel Mobile Chipset controller for 1 SATA3 ports  |
| <b>Audio</b>               | ALC 888S HD Audio  |
| <b>Graphics</b>            | 1 Intel® Iris® Xe Graphics port(s)<br>4 Independent Displays from Dual DP (Alt mode)/HDMI 2.0b/HDMI1.4 |
| <b>Network Controllers</b> | Dual LAN with Intel® Ethernet Controller I226-IT, 2.5G, TSN, industrial grade                          |

#### Input / Output

|                     |   |
|---------------------|---|
| <b>SATA</b>         | 1 SATA3 port(s)   |
| <b>USB</b>          | 6 USB port(s) (4 via header; 2 rear type A)<br>2 USB 3.2 Gen2 port(s) (2 rear type C Support DP1.4a (ALT mode)) |
| <b>Video Output</b> | 1 HDMI 2.0b port(s), 1 HDMI port(s), 2 DP (Alt mode) port(s)  |
| <b>Serial Port</b>  | 4 COM Port(s) (4 header), 2 RS-232/422/485 with flow control, 2 RS-232  |
| <b>TPM</b>          | 1 TPM Chip  |
| <b>Others</b>       | 1 8-bit GPIO header<br>1 SMBus header   |

#### Expansion Slots

|             |   |
|-------------|---|
| <b>PCIe</b> | 1 PCIe 4.0 x4 SlimSAS   |
| <b>M.2</b>  | M.2 Interface: 1 PCIe 4.0 x4; 1 CNVi/PCIe 3.0 x1/USB2; 1 SATA or PCIe x1/USB3/USB2<br>Form Factor: 2242/2280, 2230, 2242/2280<br>Key: M-Key, E-Key, B-Key |

#### System BIOS

|                      |  |
|----------------------|--|
| <b>BIOS Type</b>     | AMI UEFI   |
| <b>BIOS Features</b> | ACPI 6.4<br>SMBIOS 3.5 or later<br>UEFI 2.8B<br>PCI FW 3.3<br>RTC (Real Time Clock) Wakeup |

#### Management

|                                   |   |
|-----------------------------------|---|
| <b>Software</b>                   | <a href="#">Supermicro Server Manager (SSM)</a> , <a href="#">Supermicro Update Manager (SUM)</a> , <a href="#">Supermicro SuperDoctor® 5 (SD5)</a> , <a href="#">Super Diagnostics Offline (SDO)</a> , <a href="#">SuperServer Automation Assistant (SAA) New!</a> |
| <b>System Management Software</b> | SuperDoctor® 5  |

|                             |   |
|-----------------------------|---|
| <b>Power Configurations</b> | ACPI Power Management, Wake-On-LAN, Force Power On by Jumper, Control of power-on for recovery from AC power loss, +12-24V DC Power Input |
|-----------------------------|---|

#### Security

|                 |                                   |
|-----------------|-----------------------------------|
| <b>Hardware</b> | Trusted Platform Module (TPM) 2.0 |
|-----------------|-----------------------------------|

#### PC Health Monitoring

|                       |  |
|-----------------------|--|
| <b>Voltage</b>        | VBAT, +5V, +3.3V, +12V, +1.8V PCH, +3.3V standby, Vmem, Vcore, +1.05V  |
| <b>LED</b>            | Power LED<br>LAN activity LED<br>HDD Activity LED  |
| <b>Temperature</b>    | CPU thermal trip support<br>peripheral temperature<br>System temperature<br>CPU temperature<br>PCH temperature |
| <b>Other Features</b> | RoHS   |
| <b>FAN</b>            | 4x 4-pin fan headers (up to 4 fans)  |

#### Operating Environment

|  |                              |
|--|------------------------------|
| <b>Operating Temperature Range</b>           | 0°C - 85°C (32°F - 185°F)    |
| <b>Non-Operating Temperature Range</b>       | -40°C - 85°C (-40°F - 185°F) |
| <b>Operating Relative Humidity Range</b>     | 10% - 85% (non-condensing)   |
| <b>Non Operating Relative Humidity Range</b> | 10% - 95% (non-condensing)   |

Certain products may not be available in your region

Global SKU [English](#)

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