

## Blade SBI-612BA-1NE34 (Complete System Only)



### Integrated Board



[\(/en/products/motherboard/B14SBE-CPU-AP\)](/en/products/motherboard/B14SBE-CPU-AP)

[B14SBE-CPU-AP \(/en/products/motherboard/B14SBE-CPU-AP\)](/en/products/motherboard/B14SBE-CPU-AP)

**Views:** | [Angled View \(/a images/products/views/SBI-612BA-1NE34\\_callout\\_angle.jpg\)](/images/products/views/SBI-612BA-1NE34_callout_angle.jpg) | [Rear View \(/a images/products/views/SBI-612BA-1NE34\\_callout\\_rear.jpg\)](/images/products/views/SBI-612BA-1NE34_callout_rear.jpg) | [Front View \(/a images/products/views/SBI-612BA-1NE34\\_callout\\_front.jpg\)](/images/products/views/SBI-612BA-1NE34_callout_front.jpg) | [Angled Node View \(/a images/products/views/SBI-612BA-1NE34\\_callout\\_node.jpg\)](/images/products/views/SBI-612BA-1NE34_callout_node.jpg) | [Top Node View \(/a images/products/views/SBI-612BA-1NE34\\_callout\\_top.jpg\)](/images/products/views/SBI-612BA-1NE34_callout_top.jpg) |

**Note:** Complete system should include at least 1 CPU, 1 DIMM, & 1 HDD/SSD.

[Drivers & Utilities](#) | [BIOS / BMC](#) | [Manuals](#) | [Tested Memory](#)

[Tested HDD](#) | [Tested AOC](#) | [Tested NVMe](#)

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=90241&ProductName=SBI-612BA-1NE34\)](/en/support/resources/m2ssd?SystemID=90241&ProductName=SBI-612BA-1NE34)

[OS Certification Matrix \(/en/support/resources/certification/SBI-612BA-1NE34\)](/en/support/resources/certification/SBI-612BA-1NE34)

[Compatible GPU List \(/en/support/resources/gpu\)](/en/support/resources/gpu)

[Quick-References Guide](#) | [Download Driver CD](#)

NOTE: Please email to

[support@supermicro.com \(mailto:support@supermicro.com\)](mailto:support@supermicro.com) for more information about upgrading to latest BIOS/BMC

## Key Applications

- Enterprise Applications
- High Performance Computing
- Engineering/scientific research
- Cloud, virtualization, financial, EDA

## Key Features

1. 70 servers per 42U rack
2. Single Socket BR (LGA-7529), Intel® Xeon® 6900 series processors
3. Up to 12 DIMMs supporting up to 3TB 6400MT/s DDR5 RDIMM or 1.5TB 8800MT/s DDR5 MRDIMM
4. 4 Hot-swap E3.S NVMe NVMe SSD, 2 M.2 NVMe SSD
5. Dual-port 25G Ethernet (LOM)
6. Expansion slot for Ethernet mezzanine card and for standard PCIe card

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

## Specifications

## Product SKUs

### SuperBlade Sled

SBI-612BA-1NE34

### Motherboard

[MBD-B14SBE-CPU-AP](#)

[\(/en/products/motherboard/B14SBE-CPU-AP\)](/en/products/motherboard/B14SBE-CPU-AP)

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## Processor (per Node)

### CPU

Single Socket BR (LGA-7529)

[Intel® Xeon® 6900 series processors with P-cores](#)

[\(/en/support/resources/cpu-intel-xeon-6900\)](/en/support/resources/cpu-intel-xeon-6900)

### Note

Up to 500W with D2C (Liquid Cooled)

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## System Memory (per Node)

### Memory Capacity

12 DIMM slots

Up to 3TB 6400MT/s DDR5 RDIMM or 1.5TB 8800MT/s DDR5 MRDIMM

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## On-Board Devices (per Node)

### Chipset

System on Chip

### Network Controllers

Onboard Dual 25G Ethernet

1 expansion slot w/ optional mezzanine cards

### MGMT/Security

IPMI 2.0 / KVM over IP / Redfish API/TPM 2.0/Signed Firmware/HW

Root of Trust

### Graphics

Aspeed AST2600

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## System BIOS

### BIOS Type

AMI 256MB SPI Flash EEPROM

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## Dimensions

### Height

9.75"

### Width

1.75"

### Depth

23.5"

### Weight

12.1 lbs (5.49 kg)

### Available Colors

Metalic Silver with Black Drive Bays

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## Front Panel

### Buttons

Power On/Off button

### LEDs

Power LED

UID

Network Activity LED

Fault LED

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## Expansion Slots (per Node)

### PCIe

2 PCIe Gen5 x16 slot, support 1 FHFL DW PCIe card or 2 SW PCIe cards

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## Drive Bays / Storage (per Node)

### Hot-swap

4 Hot-swap E3.S NVMe SSDs

### M.2

2 M.2 NVMe SSD

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## Input / Output

### TPM

1 TPM Header

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## Operating Environment

### RoHS

RoHS Compliant

### Environmental Spec.

Operating Temperature:

10°C ~ 35°C (50°F ~ 95°F)

Non-operating Temperature:

-30°C to 60°C (-22°F to 140°F)

Operating Relative Humidity:

8% to 80% (non-condensing)

Non-operating Relative Humidity:

8% to 90% (non-condensing)

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## Parts List

Certain products may not be available in your region

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Global SKU [\(/en/products/SMC\\_global\\_skus\)](/en/products/SMC_global_skus)

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