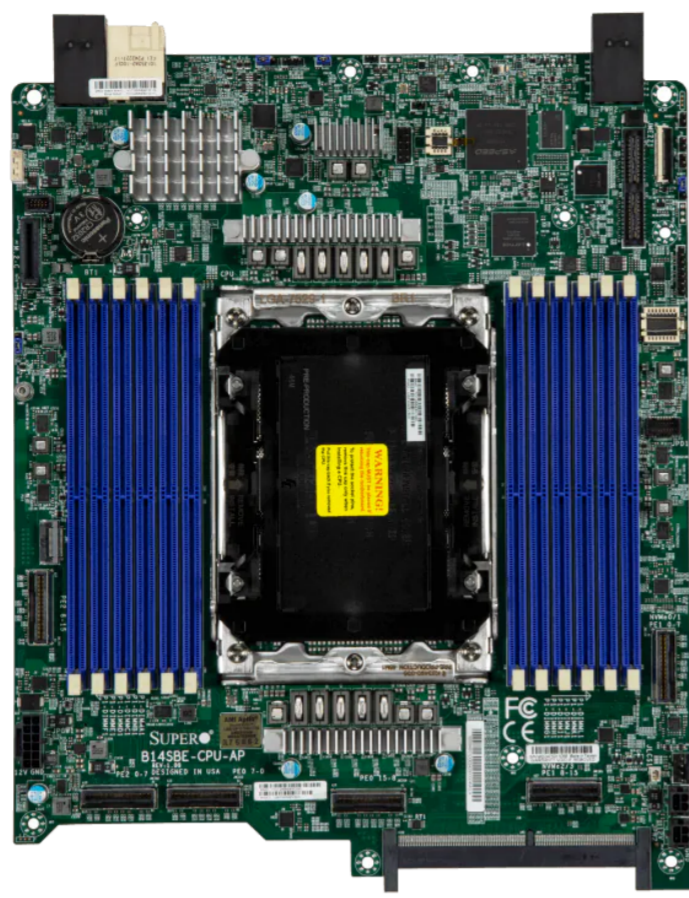» Products » Motherboards

B14SBE-CPU-AP (For SuperServer Only) **Coming Soon**

🖨 Print

Key Features

1. Intel® Xeon® 6900-series processors with P-cores, Single Socket LGA-7529 (Socket BR) supported, CPU TDP supports Up to 500W TDP
2. Up to 3TB ECC R/LR/3DSLR, DDR5-6400MT/s (1DPC) in 12 DIMM slots
3. 6x PCIe 5.0 x8 MCIO connectors for GPU Riser/NVMe/AIOM add on module
4. **M.2 Interface:** Up to 2x PCIe 5.0 x2 per slot via adaptor card
   M.2 Form Factor: 2280
   M.2 Key: M-Key
5. Power distribution board to support extra GPU in 6/8U blade
   1x Blade Power Connector
   1x 12pin+4S 12VHPWR Connector
   2x Side Band Connectors for Motherboard Control
   ...

Optimized Servers

[SBI-612BA-1NE34](#)   [SBI-612BA-5NE34](#)

Contact Us

Specifications | Resources | Parts List

Product SKUs

MBD-B14SBE-CPU-AP

Physical Stats

Form Factor	Proprietary
Dimension	12.1" x 9.36" (30.74cm x 23.77cm)

Processor

CPU	[Intel® Xeon® 6900-series processors with P-cores](#) Single Socket BR (LGA-7529) supported, CPU TDP supports Up to 500W TDP
Core	Up to 128 (P) cores

System Memory

Memory Capacity	12 DIMM slots Up to 3TB ECC Registered MRDIMM, DDR5-8800MT/s; Up to 3TB 3DS ECC Registered RDIMM, DDR5-6400MT/s
Memory Type	6400 MT/s ECC DDR5 MRDIMM, RDIMM (3DS) Up to 256GB of memory with speeds of up to 8800 MT/s (MRDIMM 1DPC) or 6400 MT/s (RDIMM 1DPC)
DIMM Sizes	32GB, 48GB, 64GB, 96GB, 128GB, 256GB MRDIMM: 32GB, 48GB, 64GB, 96GB, 128GB, 256GB RDIMM: 32GB, 48GB, 64GB, 96GB, 128GB, 256GB
Memory Voltage	1.1V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	System on Chip
IPMI	ASPEED AST2600 BMC
Network Controllers	Dual LAN with Intel® Ethernet Controller E810-XXVAM2, Two (2) 25GbE Ethernet ports from KR interface to BP

Input / Output

TPM	1 TPM Header

Expansion Slots

PCIe	1 PCIe 4.0 x16 Mezzanine card connector, For 6U 25G Dual port Mezzanine Card, 1 PCIe 4.0 x16 SIOM Slot, For AOM-BPNIO-SCE2 to support (2) Hot-plug U.2 NVMe/SAS/SATA; HW RAID with 3108, 6 PCIe 5.0 x8 MCIO connector, For GPU Riser/NVMe/AIOM add on module
M.2	M.2 Interface: 2 PCIe 5.0 x4, RAID 0 & 1 Form Factor: 2280 Key: M-Key M.2 support requires an optional M.2 adapter card

System BIOS

BIOS Type	AMI 64MB AMI UEFI
BIOS Features	ACPI 6.5 SMBIOS 3.7 or later UEFI 2.9

Management

Software	[Redfish API](#), [Supermicro Server Manager (SSM)](#), [Supermicro Update Manager (SUM)](#), [Supermicro SuperDoctor® 5 (SD5)](#), [Super Diagnostics Offline (SDO)](#), [KVM with dedicated LAN](#), [IPMI 2.0](#)

PC Health Monitoring

Voltage	VBAT, System level control, Supports system management utility, Monitors CPU voltages, +5V standby, +5V, +3.3V, +12V, GPUtemperature
LED	UID/Remote UID CPU / System Overheat LED
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN	Fan speed control
Other Features	UID Control of power-on for recovery from AC power loss ACPI power management

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Certain products may not be available in your region

Global SKU 🌐 English ▾