



Integrated Board



[./en/products/motherboard/B14DBT\).](#)

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Views: | [Angled View \(/a_images/products/views/SBI-422B-5NE14_callout_angle.jpg\)](#) | [Rear View \(/a_images/products/views/SBI-422B-5NE14_callout_rear.jpg\)](#) | [Front View \(/a_images/products/views/SBI-422B-5NE14_callout_front.jpg\)](#) | [Angled Node View \(/a_images/products/views/SBI-422B-5NE14_callout_node.jpg\)](#) | [Top Node View \(/a_images/products/views/SBI-422B-5NE14_callout_top.jpg\)](#) |

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

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

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

[Tested M.2 List \(/support/resources/M2SSD/display.cfm?SystemID=90244&ProductName=SBI-422B-5NE14 \)](#).

[OS Certification Matrix \(/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SBI-422B-5NE14 \)](#).

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

NOTE: Please email to support@supermicro.com (mailto:support@supermicro.com), for more information about upgrading to latest BIOS/BMC

Key Applications

- Enterprise data center
- EDA, Cloud
- High-performance Computing (HPC)

Key Features

1. 50 servers per 42U rack
2. Dual Socket E2 (LGA-4710), Intel® Xeon® 6700/6500-series processors with P-cores or E-cores
3. Up to 16 DIMMs, 1DPC with DDR5-6400MT/s ECC RDIMM
4. Support up to 9 drives per blade
5. Dual-port 25G Ethernet (LOM), additional 200G/100G InfiniBand or dual-port 25G Ethernet via mezzanine card
6. OCP 3.0 network card support, e.g. 400G NDR InfiniBand card*

* Please contact your Supermicro sales rep for more info.

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

Optional Parts List

Part Number	Qty	Description
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Product SKUs

SuperBlade Sled	SBI-422B-5NE14
Motherboard	MBD-B14DBT (/en/products/motherboard/B14DBT).
Processor CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500-series processors with P-cores or E-cores (/en/support/resources/cpu-intel-xeon-6700-6500). Note: Up to 350W TDP

System Memory (per Node)

Memory Capacity	16 DDR5 DIMM slots Up to 4TB DDR5ECC RDIMM/3DS-RDIMM, with speed 6400MT/s (1DPC) or 5200MT/s (2DPC) in 16 DIMM slots Up to 512GB MRDIMM with speed 8000MT/s in 1DPC memory population
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On-Board Devices

Chipset	Intel® C741 chipset
Network Controllers	Onboard Dual 25G Ethernet 1 Mezzanine expansion slot and 3 different optional Mezzanine card. 1 OCP 3.0 network card (option) Optional: Dual 25G Ethernet / 100G EDR / 200G HDR / 400G NDR*
MGMT/Security	IPMI 2.0 / KVM over IP / Redfish API/TPM 2.0/Signed Firmware/HW Root of Trust
Graphics	Aspeed AST2600

System BIOS

BIOS Type	256Mb SPI Flash EEPROM with AMI® BIOS
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Dimensions

Height	3.4"
Width	6.55"
Depth	23.9"
Weight	8.07 lbs
Available Colors	Metalic Silver with Black Drive Bays

Front Panel

Buttons	Power On/Off button
LEDs	Power LED UID Network Activity LED Fault LED

Drive Bays

Hot-swap	4 E1.S drives
M.2	1 M.2 2280 Optional: 4 M.2 NVMe via mezz card

Input / Output

TPM	1 TPM 2.0 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: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

TPM security module	AOM-TPM-9670V	-	TPM module (Vertical) TPM 2.0
(optional, not included)	AOM-TPM-9671V	-	TPM module (Vertical) TPM 1.2.
VROC	AOC-VROCPREMOD	-	Intel VROC Premium, RAID 0, 1, 5, 10
	AOC-VROCSTNMOD	-	Intel VROC HW key (RSTe) standard upgrade module
Heatsink / Retention	SNK-P0088P	-	Heatsink for CPU
CPU Carrier	SKT-1544H-0000-FXC	-	Socket E2 E2B Carrier, LGA4710, GNR-SP HCC/LCC& SRF-SP, DG1.0, HF
	SKT-1544H-0000-LTS	-	Socket E2, LGA4710-2, GNR-SP E2B Carrier, PC, Gray HSG, W/SHIM
	SKT-1543H-0000-FXC	-	Socket E2 E2A Carrier, LGA4710, GNR-SP XCC, DG1.0, Cool Gray, HF
	SKT-1543H-0000-LTS	-	Socket E2, LGA4710-2, GNR-SP E2A Carrier, PC, Gray HSG, W/O SHIM
SuperBlade Tray	MCP-630-41004-0N	-	4U 10 SuperBlade Tray Extended Top cover for Double-Width
Networking	AOC-B25G-X4D-B	-	SuperBlade 2-port 25GbE Mezzanine Card (Mellanox ConnectX-4 Lx EN)
Networking	AOC-IBH-X4ES-B	-	Mezzanine Card for InfiniBand EDR Single Port with mounting bracket
Networking	AOC-IBH-X6HS-B	-	SuperBlade InfiniBand HDR one port Mezzanine card with mounting bracket
Software	SFT-DCMS-Single	-	DataCenter Management Package (per node license)
Add-on Card / Module	AOM-B-4M	-	4 x M.2 NVMe mezzanine card, 4x 110(80)

Certain products may not be available in your region
