

SUPERMICR[®] SuperBlade SBI-6119R-C3N/T3N Blade Module Quick Reference Guide

Board Layout



SBI-6119R-C3N

SBI-6119R-T3N

SBI-6119R-C3N/T3N Module Layout	
Item	Description
1	CPUs installed
2	Front housing for three 2.5" SATA/SSD/NVMe hard drive bays
3	DIMM slots
4	Power and Logic connectors to backplane
5	Storage Module
6	Bridge Board
7	SATA Port
8	9-pin TPM Connector

Caution

SAFETY INFORMATION
IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

WARNING:
 To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets. If any CPU socket empty, install protective plastic CPU cap

WARNING:
 Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to: <http://www.supermicro.com/support>

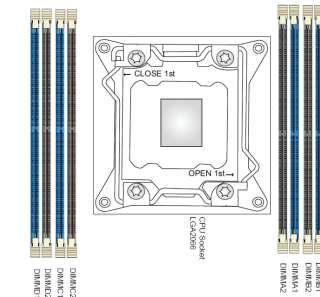
Memory Support

The SBI-6119R-C3N/T3N supports up to 512 GB RDIMM/LRDIMM DDR4 2666 MHz speed, 8 GB, 16 GB, 32 GB and 64 GB size SDRAM memory in eight 288-pin DIMM sockets

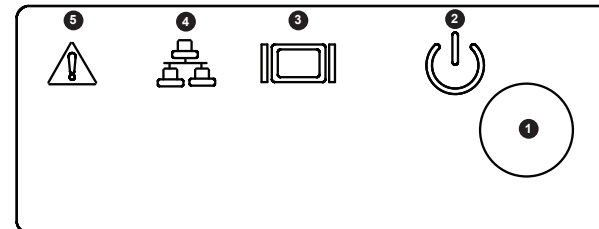
Notes:

- Up to 8x DIMMs are supported.
- Unbalanced memory configuration decreases memory performance and is not recommended.

Memory Population (Balanced)								
DIMMA1	DIMMB1	DIMMC1	DIMMD1	DIMMA2	DIMMB2	DIMMC2	DIMMD2	Total System Memory
4GB	4GB							8GB
4GB	4GB	4GB	4GB					16GB
4GB	4GB	4GB	4GB	4GB	4GB	4GB	4GB	32GB
8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	64GB
32GB	32GB	32GB	32GB					128GB
32GB	32GB	32GB	32GB	32GB	32GB	32GB	32GB	256GB
64GB	64GB	64GB	64GB	64GB	64GB	64GB	64GB	384GB
64GB	64GB	64GB	64GB	64GB	64GB	64GB	64GB	512GB



Control Panel



Blade Control Panel			
Item	Function	State	Description
1	Power Button	N/A	Turns blade module on and off
2	Power LED	Green	Indicates power status "On"
		Solid Orange	Indicates power status "Off" (with power cables plugged in)
3	KVM/UID LED	Flashing Orange	Flashing Orange: Indicates node is not ready or not enough power to turn on
		Blue	Indicates KVM being utilized on blade unit
4	Network/IB LED	Flashing Blue	Indicates UID activated on blade module
		Flashing Green	Indicates network activity over LAN
5	System Fault LED	Flashing Orange	Indicates network activity
		Red	Indicates a memory error, overheat, VGA error or any error that prevents booting

Enclosure Requirements

Enclosure Requirements

The SBI-6119R-C3N/T3N blade module requires one of the following enclosures to run in:
 SBE-610J-822
 SBE-610J-622
 SBE-610J-422
 SBE-610JB-422

See the Supermicro website for details on enclosures at:
<https://www.supermicro.com/en/products/superblade/enclosure>

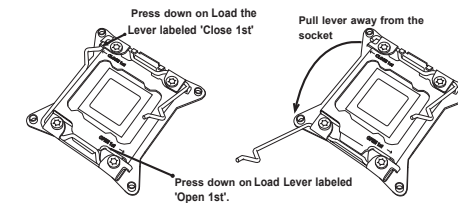
Note: The SBI-6119R-C3N/T3N blade module also requires one or more power supplies in the enclosure to run the blade module. Available SuperBlade power supplies can be found on the Supermicro website at <https://www.supermicro.com/products/SuperBlade/powersupply/>.



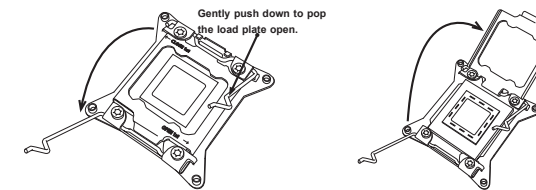
CPU and Heat Sink Installation

Installing the LGA2066 Processor

- There are two load levers on the LGA2066 socket. To open the socket cover, first press and release the load lever labeled 'Open 1st'.
- Press the second load lever labeled 'Close 1st' to release the load plate that covers the CPU socket from its locking position.

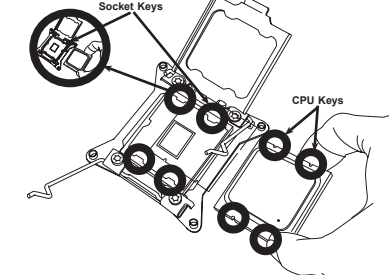


- With the lever labeled 'Close 1st' fully retracted, gently push down on the 'Open 1st' lever to open the load plate. Lift the load plate to open it completely.



- Using your thumb and index finger, remove the WARNING plastic cap from the socket.

- Use your thumb and index finger to hold the CPU on its edges. Align the CPU keys, which are semi-circle cutouts, against the socket keys.

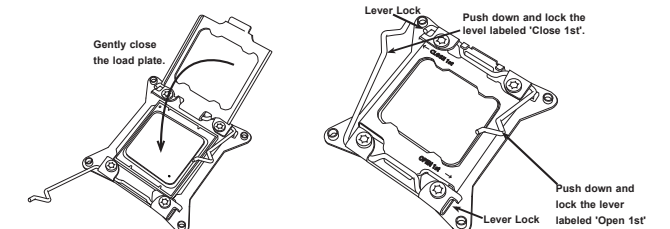


- Once they are aligned, carefully lower the CPU straight down into the socket. (Do not drop the CPU on the socket. Do not move the CPU horizontally or vertically. Do not rub the CPU against the surface or against any pins of the socket to avoid damaging the CPU or the socket.)

Caution:
 You can only install the CPU inside the socket in one direction. Make sure that it is properly inserted into the CPU socket before closing the load plate. If it doesn't close properly, do not force it as it may damage your CPU. Instead, open the load plate again and double-check that the CPU is aligned properly.

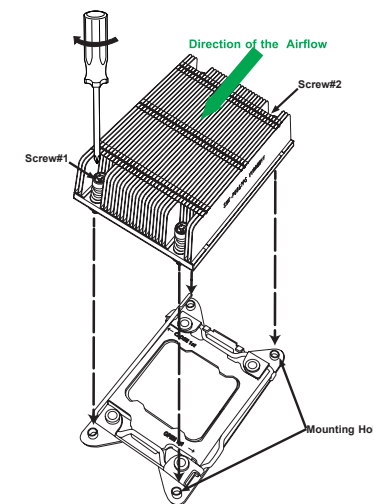
- With the CPU inside the socket, inspect the four corners of the CPU to make sure that the CPU is properly installed.

- Close the load plate with the CPU inside the socket. Lock the lever labeled 'Close 1st' first, then lock the lever labeled 'Open 1st' second. Use your thumb to gently push the load levers down to the lever locks.



Installing a Passive CPU Heatsink

- Do not apply any thermal grease to the heatsink or the CPU die -- the required amount has already been applied.
- Place the heatsink on top of the CPU so that the four mounting holes are aligned with those on the motherboard and the heatsink bracket underneath.
- Screw in two diagonal screws (e.g., the #1 and #2 screws) until just snug. Do not over-tighten the screws to avoid damaging the CPU and the motherboard.
- Finish the installation by fully tightening all four screws.

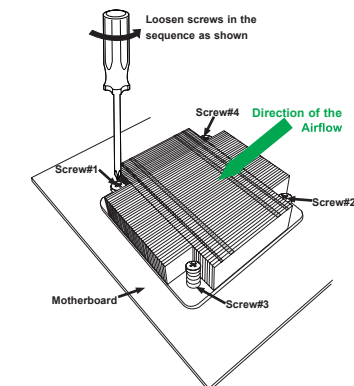


Note: For optimal airflow, please follow your chassis airflow direction to correctly install the CPU heatsink. Graphic drawings included in this manual are for reference only. They might look different from the components installed in your system.

Removing the CPU and the Heatsink

Warning: We do not recommend that the CPU or the heatsink be removed. However, if you do need to uninstall the CPU or the heatsink, please follow the instructions below to uninstall the heatsink or the CPU without damaging the CPU or the motherboard.

- Unscrew the heatsink screws from the motherboard in the sequence as shown in the illustration below.
- Gently wriggle the heatsink to loosen it from the CPU socket. Do not use excessive force when loosening the heatsink!
- Once the heatsink is loosened, remove it from the socket. Once the heatsink is removed, remove the CPU from the socket as needed.
- Remove the used thermal grease and clean the surface of the CPU and the heatsink. Reapply the proper amount of thermal grease on the surface before reinstalling the CPU and the heatsink as needed.



Note 1: To optimize airflow, please follow your chassis airflow direction to properly install the heatsink.

Note 2: Graphics shown in this manual are for reference only. They may or may not look the same as the components installed in your system.

