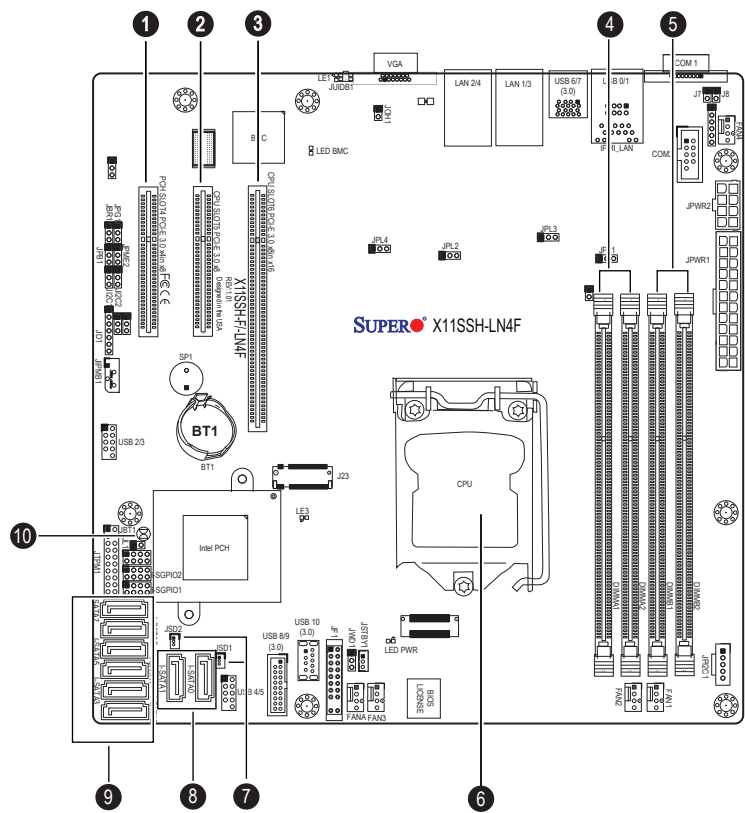


SUPERMICR[®] SuperServer 5019S-MN4 Quick Reference Guide

Board Layout



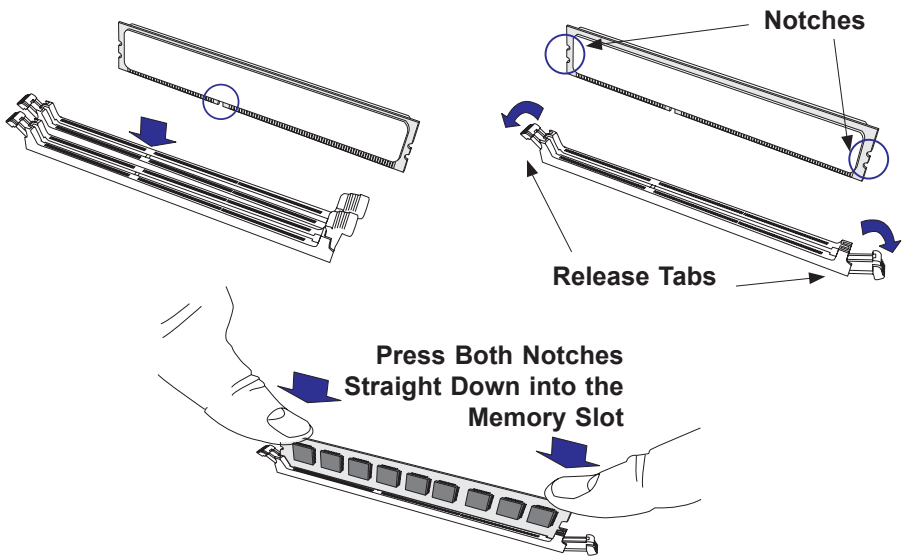
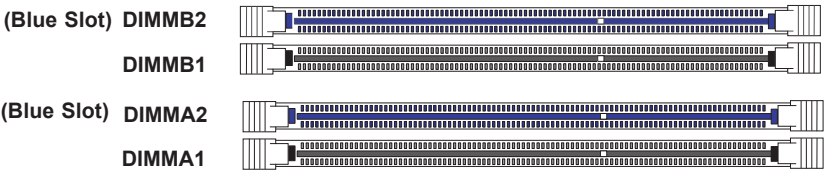
| No. | Description |
|-----|---|
| 1 | PCH Slot4 PCI-E 3.0 x4 (in x8) slot |
| 2 | CPU Slot5 PCI-E 3.0 x8 slot |
| 3 | CPU Slot6 PCI-E 3.0 x8/x16 slot |
| 4 | DIMMA1/DIMMA2 (Blue Slot) |
| 5 | DIMMB1/DIMMB2 (Blue Slot) |
| 6 | CPU |
| 7 | JSD1 & JSD2: SATA DOM power connector |
| 8 | I-SATA 0~1: SATA 3.0 Connectors via Intel PCH (6Gb/s) |
| 9 | I-SATA 2~7: SATA 3.0 Connectors via Intel PCH (6Gb/s) |
| 10 | JBT1 = CMOS Clear |

Memory

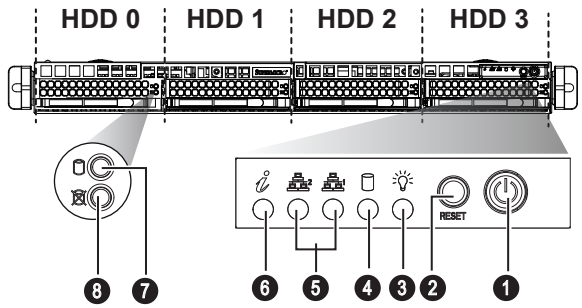
| Memory Module Population | | | | | | |
|--------------------------|---------------------|------------------------|----------------|-------------|---------|-------------------|
| DIMM Slots per Channel | DIMM Type | POR Speeds | Ranks per DIMM | Layer Count | FW Base | Supported Voltage |
| 2 | Unbuffered DDR4 ECC | 2133, 1866, 1600, 1333 | SR, DR | 6 | SPS | 1.2V1 |

| Memory Module Population | | |
|--------------------------|---------------------|----------------------|
| Max Memory Possible | 4GB DRAM Technology | POR Speeds |
| Single Rank UDIMM | 16GB (4x 4GB DIMMs) | 32GB (4x 8GB DIMMs) |
| Dual Rank UDIMM | 32GB (4x 8GB DIMMs) | 64GB (4x 16GB DIMMs) |

Populating these DIMM modules with a pair of memory modules of the same type and same size will result in interleaved memory, which will improve memory performance

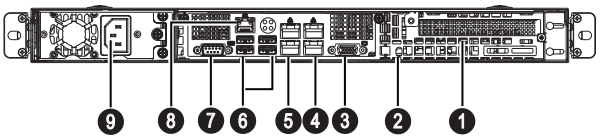


Front View & Interface



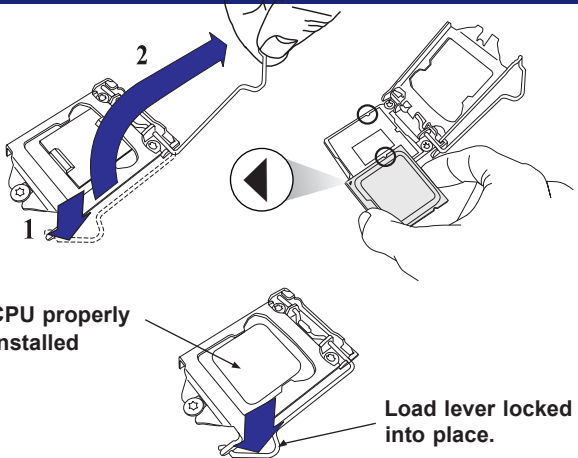
| No. | Description |
|-----|---------------------|
| 1 | Power Button |
| 2 | Reset Button |
| 3 | Power LED |
| 4 | Device Activity LED |
| 5 | LAN1 LED & LAN2 LED |
| 6 | Information LED |
| 7 | Hard Drive Signal |
| 8 | Hard Drive Fail |

Rear View

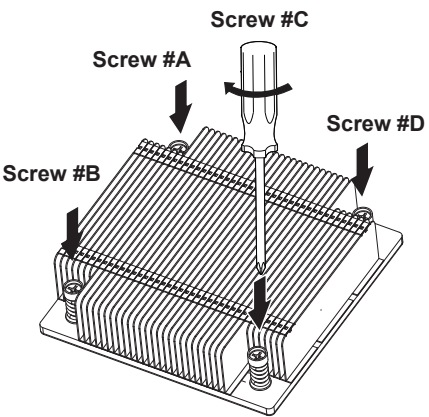


| No. | Description |
|-----|-------------------------------------|
| 1 | PCI-E Expansion Slot (w/riser card) |
| 2 | UID Button |
| 3 | VGA Port |
| 4 | GbE LAN2 Port & GbE LAN4 Port |
| 5 | GbE LAN1 Port & GbE LAN3 Port |
| 6 | USB 4/5/6/7 Ports |
| 7 | COM1 Port |
| 8 | Dedicated LAN for IPMI |
| 9 | Single Power Supply Module |

CPU Installation



Heatsink Installation



1. Place heatsink on top of installed CPU
2. Line up the four screws to socket
3. Push down heatsink and screw down as shown (cross pattern, in order: A, C, B, D)
4. NOTE: Only use 6-8 lb/f of torque; otherwise, hand-tighten each screw, to avoid damaging the system

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



CAUTION:

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.

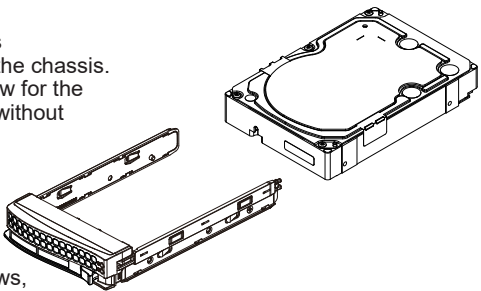
For more information go to :
<http://www.supermicro.com/support>

SATA Drive Installation

Mounting a Drive in a Drive Carrier

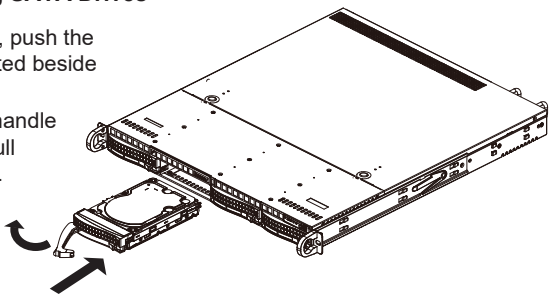
The SATA drives are mounted in drive carriers to simplify their installation and removal from the chassis. These carriers also help promote proper airflow for the system. For this reason, even empty carriers without drives installed must remain in the chassis.

1. Install a new drive into the carrier with the printed circuit board side facing down so that the mounting holes align with those in the carrier.
2. Secure the drive to the carrier with six screws, as shown.



Installing/Removing SATA Drives

1. To remove a carrier, push the release button located beside the drive LEDs.
2. Swing the colored handle fully and use it to pull the unit straight out.



Beep Code

| BIOS Error Beep Codes | | |
|-----------------------------|---------------------------------|---|
| Beep Code/LED | Error Message | Description |
| 1 beep | Refresh | Circuits have been reset. (Ready to power up) |
| 5 short beeps + 1 long beep | Memory error | No memory detected in the system |
| 8 beeps | Display memory read/write error | Video adapter missing or with faulty memory |
| OH LED On | System OH | System Overheat |

