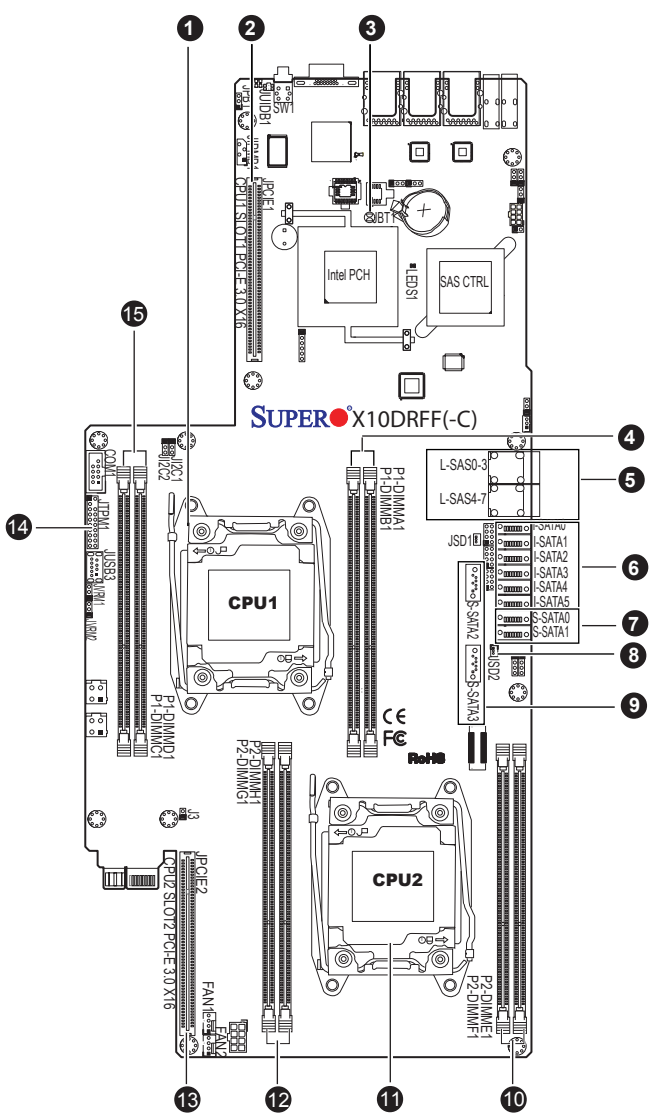


# SUPERMICR<sup>®</sup> SuperServer F618R3-FT Quick Reference Guide

## Board Layout



| No. | Description                                                           |
|-----|-----------------------------------------------------------------------|
| 1   | CPU1 Socket                                                           |
| 2   | CPU1 Slot1 PCI-E 3.0 x16                                              |
| 3   | JBT1: CMOS Clear                                                      |
| 4   | P1-DIMMA1 / P1-DIMMB1                                                 |
| 5   | L-SAS 0~3/4~7: SAS Connectors 0~3/4~7 supported by LSI SAS controller |
| 6   | I-SATA0~5: I-SATA 3.0 Ports (support by the Intel PCH)                |
| 7   | S-SATA0/1: S-SATA 2.0 Ports (support by the Intel SCU)                |
| 8   | JSD1/JSD2: Disk-On-Module (DOM)                                       |
| 9   | S-SATA2/3: SATA DOM w/power pin built-in connectors 2/3               |
| 10  | P1-DIMME1 / P1-DIMMF1                                                 |
| 11  | CPU2 Socket                                                           |
| 12  | P1-DIMMH1 / P1-DIMMG1                                                 |
| 13  | CPU2 Slot2 PCI-E 3.0 x16                                              |
| 14  | JTPM1: Trusted Platform Module Header                                 |
| 15  | DIMMC1 / DIMMD1                                                       |

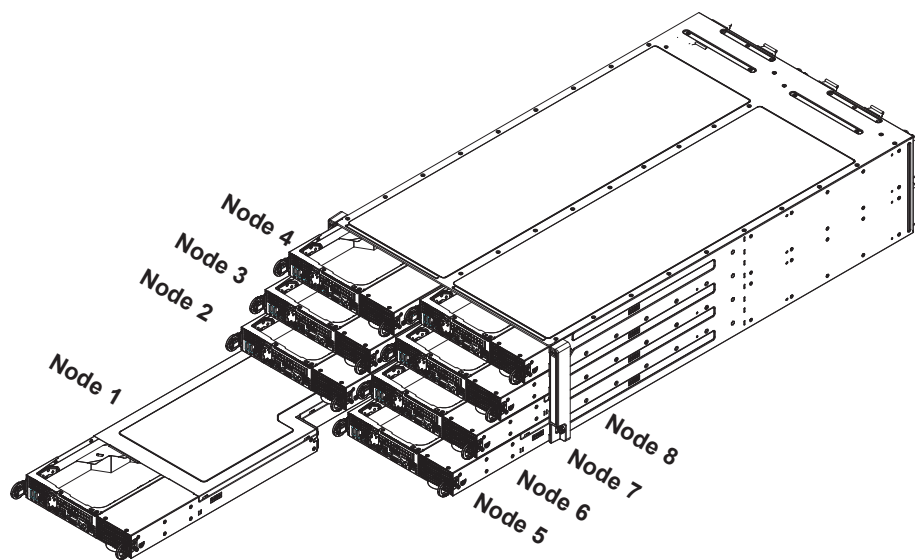
## Memory

| Processors and their Corresponding Memory Modules |                            |           |           |           |
|---------------------------------------------------|----------------------------|-----------|-----------|-----------|
| CPU#                                              | Corresponding DIMM Modules |           |           |           |
| CPU 1                                             | P1-DIMMA1                  | P1-DIMMB1 | P1-DIMMC1 | P1-DIMMD1 |
| CPU 2                                             | P2-DIMME1                  | P2-DIMMF1 | P2-DIMMG1 | P2-DIMMH1 |

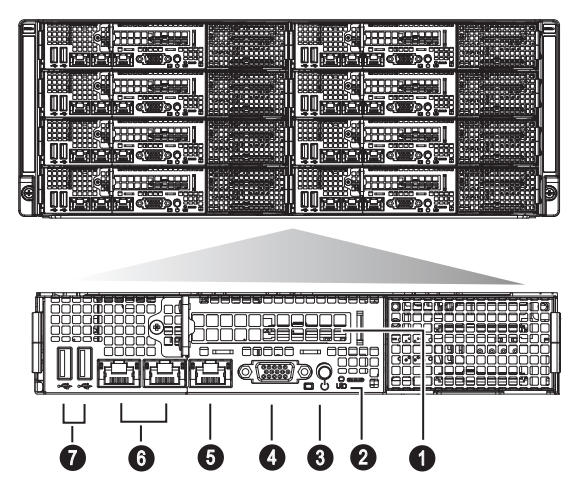
| Number of CPUs+DIMMs |  | Processor and Memory Module Population for Optimal Performance                                                        |                                                                                  |
|----------------------|--|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|                      |  | CPU and Memory Population Configuration Table<br>(For memory to work properly, please follow the instructions below.) |                                                                                  |
| 1 CPU & 2 DIMMs      |  | CPU1                                                                                                                  | P1-DIMMA1/P1-DIMMB1                                                              |
| 1 CPU & 4 DIMMs      |  | CPU1                                                                                                                  | P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1                                         |
| 2 CPUs & 4 DIMMs     |  | CPU1 + CPU2                                                                                                           | P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1                                         |
| 2 CPUs & 6 DIMMs     |  | CPU1 + CPU2                                                                                                           | P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1                     |
| 2 CPUs & 8 DIMMs     |  | CPU1 + CPU2                                                                                                           | P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 |

| Populating RDIMM/LRDIMM DDR4 Memory Modules |                               |                    |        |                                                                                |            |
|---------------------------------------------|-------------------------------|--------------------|--------|--------------------------------------------------------------------------------|------------|
| Type                                        | Ranks Per DIMM and Data Width | DIMM Capacity (GB) |        | Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC) |            |
|                                             |                               |                    |        | 1 Slot per Channel                                                             |            |
|                                             |                               |                    |        | 1 DPC                                                                          |            |
|                                             |                               |                    |        | E5-2600 V3                                                                     | E5-2600 V4 |
|                                             |                               | 4 GB               | 8 GB   | 1.2 V                                                                          | 1.2 V      |
| RDIMM                                       | SRx4                          | 8 GB               | 16 GB  | 2133                                                                           | 2400       |
| RDIMM                                       | SRx8                          | 4 GB               | 8 GB   | 2133                                                                           | 2400       |
| RDIMM                                       | DRx8                          | 8 GB               | 16 GB  | 2133                                                                           | 2400       |
| RDIMM                                       | DRx4                          | 16 GB              | 32 GB  | 2133                                                                           | 2400       |
| LRDIMM                                      | QRx4                          | 32 GB              | 64 GB  | 2133                                                                           | 2400       |
| LRDIMM 3DS                                  | 8Rx4                          | 64 GB              | 128 GB | 2133                                                                           | 2400       |

## Nodes and Corresponding Hard Drives

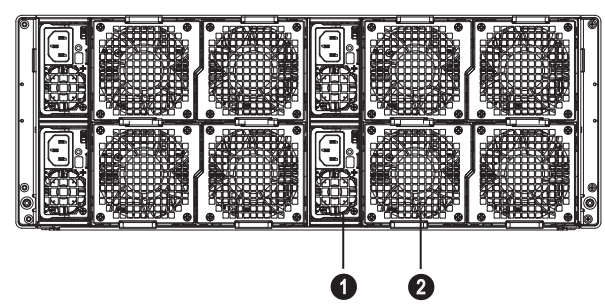


## Front View & Interface



| No. | Description                     |
|-----|---------------------------------|
| 1   | Low-Profile PCIe Expansion Slot |
| 2   | UID Button                      |
| 3   | Power Button                    |
| 4   | VGA Port                        |
| 5   | Dedicated LAN for IPMI          |
| 6   | GbE LAN1/LAN2 Ports             |
| 7   | USB 0/1 Ports                   |

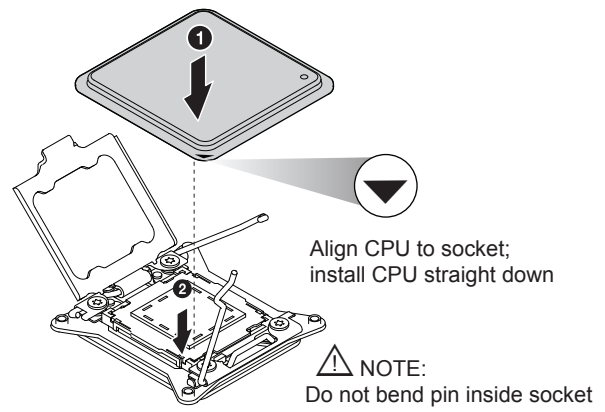
## Rear View



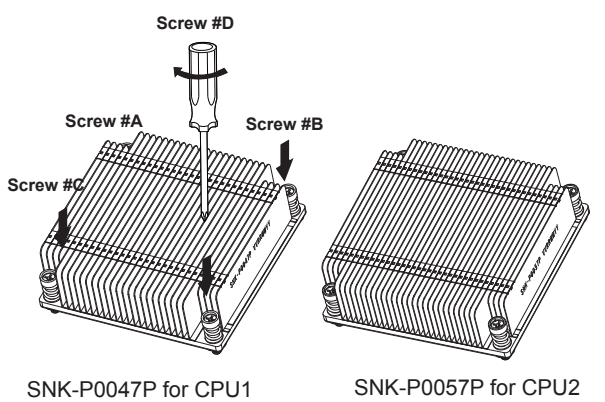
| No. | Description         |
|-----|---------------------|
| 1   | Power Supply Module |
| 2   | Rear Fan            |

| SCF418IL-R1K62BP                  |  |                                   |  |
|-----------------------------------|--|-----------------------------------|--|
| Node 4<br>Controls two HDDs D1-D2 |  | Node 8<br>Controls two HDDs H1-H2 |  |
| Node 3<br>Controls two HDDs C1-C2 |  | Node 7<br>Controls two HDDs G1-G2 |  |
| Node 2<br>Controls two HDDs B1-B2 |  | Node 6<br>Controls two HDDs F1-F2 |  |
| Node 1<br>Controls two HDDs A1-A2 |  | Node 5<br>Controls two HDDs E1-E2 |  |

## CPU Installation



## Heatsink Installation



- Place the heatsink on top of the installed CPU.
- Align the four screws to the socket.
- Holding the heatsink in place, screw down as shown (cross pattern, in order: A, C, B, D).
- Note: Only use 6-8 lb/f of torque; otherwise, hand-tighten each screw to avoid damaging the CPU.

## 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](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>

