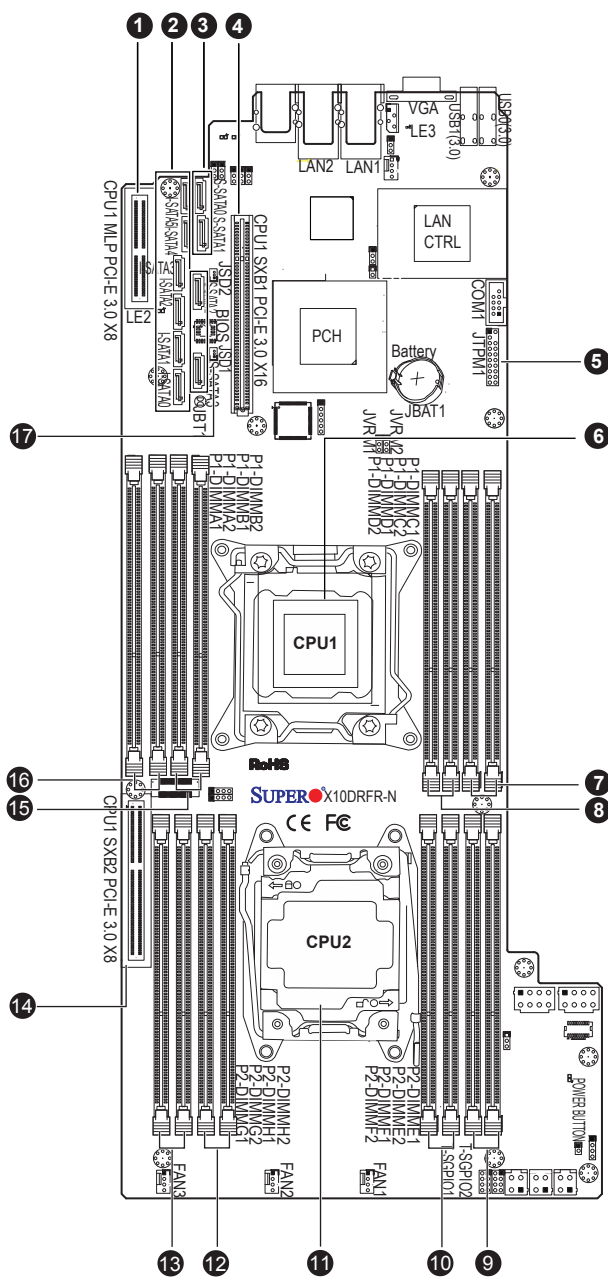


SUPERMICR SuperServer F628R3-RTBN+/RTBPTN+ Quick Reference Guide

Board Layout



No.	Description
1	CPU1 MLP PCI-E 3.0 x8
2	I-SATA0~5: Supported by Intel PCH
3	S-SATA0~3: Supported by Intel SCU2
4	CPU1_SXB_PCI-E 3.0 x16
5	JTPM1: Trusted Platform Module Header
6	CPU1 Socket
7	P1-DIMMC1 (Blue Slot) / DIMMC2
8	P1-DIMMD1 (Blue Slot) / DIMMD2
9	P2-DIMME1 (Blue Slot) / DIMME2

No.	Description
10	P2-DIMMF1 (Blue Slot) / DIMMF2
11	CPU2 Socket
12	P2-DIMMH1 (Blue Slot) / DIMMH2
13	P2-DIMMG1 (Blue Slot) / DIMMG2
14	CPU1 SXB2 PCI-E 3.0 x8 Slot
15	P1-DIMMB1 (Blue Slot) / DIMMB2
16	P1-DIMMA1 (Blue Slot) / DIMMA2
17	JSD2: Disk-On-Module power connector

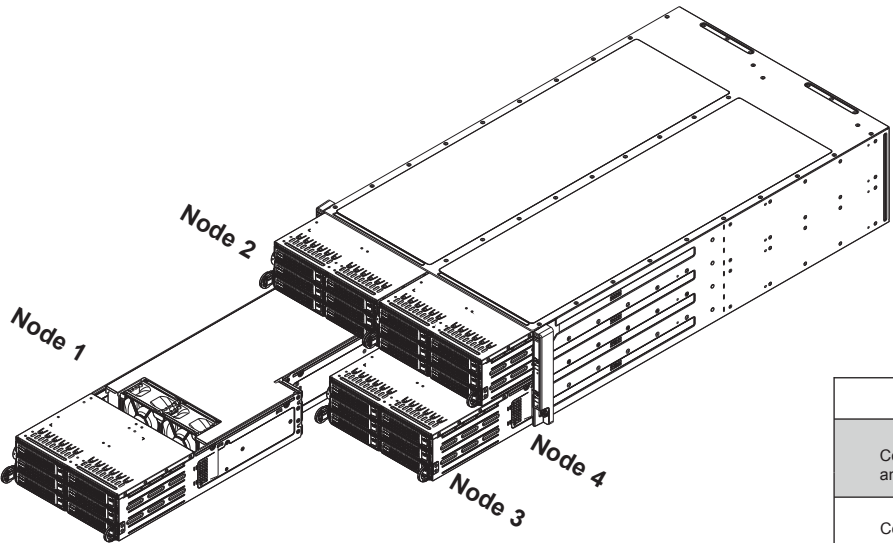
Memory

Processors and their Corresponding Memory Modules								
CPU#	Corresponding DIMM Modules							
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1	P1-DIMMA2	P1-DIMMB2	P1-DIMMC2	P1-DIMMD2
CPU 2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2	P2-DIMMH2

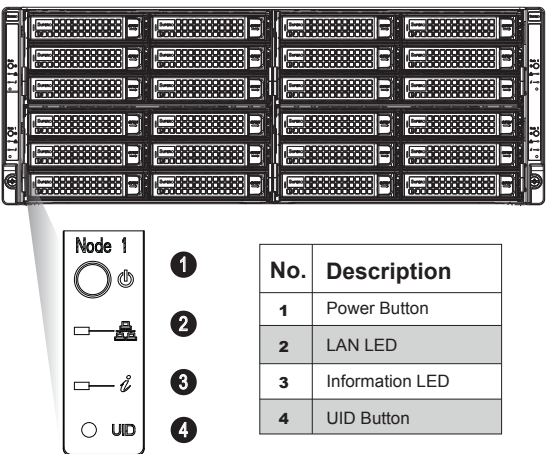
Processors and Memory Module Population for Optimal Performance	
Number of CPUs + DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, follow the instructions below)
1 CPU & 2 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
1 CPU & 5-8 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1 + Any memory pairs in P1-DIMMA2/P1-DIMMB2/ P1-DIMMC2/P1-DIMMD2 slots
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
2 CPUs & 9-16 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 + Any memory pair in P1, P2 DIMM slots
2 CPUs & 16 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1, P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2, P2-DIMME2/P2-DIMMF2/P2-DIMMG2/P2-DIMMH2

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)			
				2 Slots per Channel			
				1 DPC		2 DPC	
		E5-2600 V3	E5-2600 V4	E5-2600 V3	E5-2600 V4		
		4 GB	8 GB	1.2 V	1.2 V	1.2 V	1.2 V
RDIMM	SRx4	8 GB	16 GB	2133	2400	1866	2133
RDIMM	SRx8	4 GB	8 GB	2133	2400	1866	2133
RDIMM	DRx8	8 GB	16 GB	2133	2400	1866	2133
RDIMM	DRx4	16 GB	32 GB	2133	2400	1866	2133
LRDIMM	QRx4	32 GB	64 GB	2133	2400	2133	2400
LRDIMM 3DS	8Rx4	64 GB	128 GB	2133	2400	2133	2400

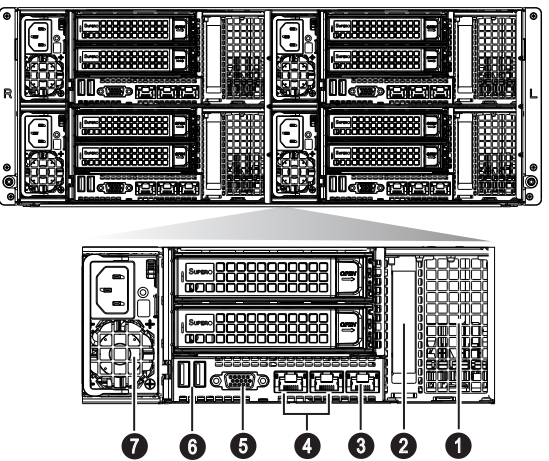
Nodes and Corresponding Hard Drives



Front View & Interface



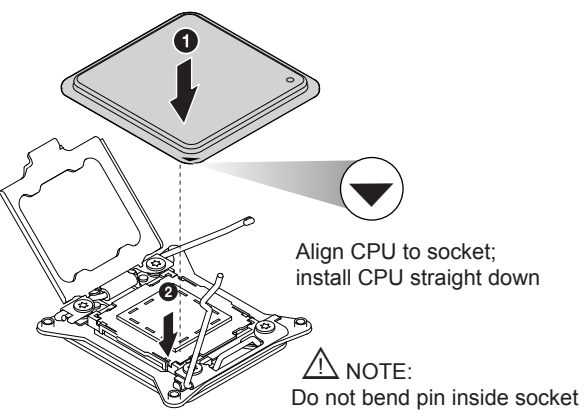
Rear View



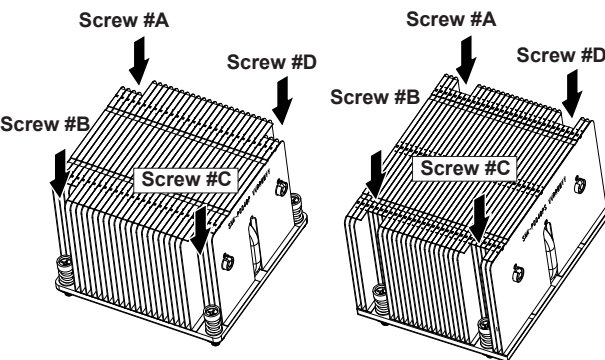
No.	Description
1	Micro-Low Profile Card
2	Low-Profile PCI-E Expansion Slot
3	Dedicated LAN for IPMI
4	GbE LAN1/LAN2 Ports
5	VGA Port
6	USB 0/1 Ports
7	Power Supply Module

F424AS Node Locations in the Chassis			
Node 2 Controls six 3.5" HDDs, B1-B6 and two rear 3.5" HDDs, B7-B8		Node 4 Controls six 3.5" HDDs, D1-D6 and two rear 3.5" HDDs, D7-D8	
Node 1 Controls six 3.5" HDDs, A1-A6 and two rear 3.5" HDDs, A7-A8		Node 3 Controls six 3.5" HDDs, C1-C6 and two rear 3.5" HDDs, C7-C8	

CPU Installation



Heatsink Installation



SNK-P0048P for CPU1 SNK-P0048PS for CPU2

- 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

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>

