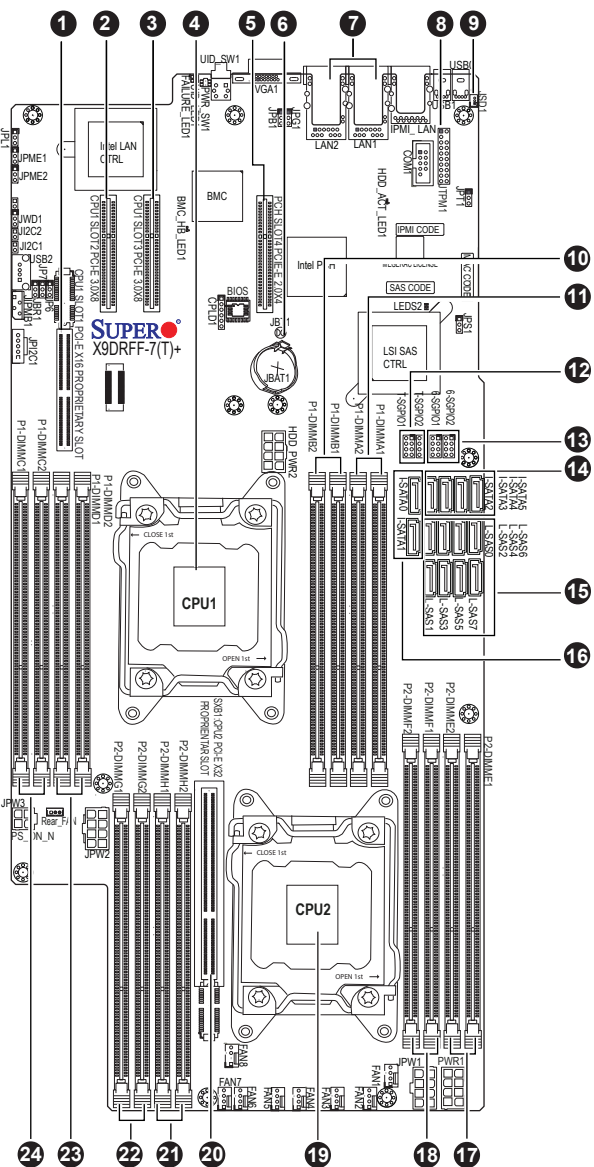


SUPERMICR SuperServer F617H6-FTPT+/FT+ Quick Reference Guide

Board Layout



No.	Description
1	CPU1 Slot1 PCI-E 3.0 x16 Proprietary Slot
2	CPU1 Slot2 PCI-E 3.0 x8
3	CPU1 Slot3 PCI-E 3.0 x8
4	CPU1 Socket
5	PCH Slot4 PCI-E 2.0 x4
6	JBT1: CMOS Clear
7	G-bit LAN ports 1/2 (X9DRFF-7T+) 10G_bit LAN Ports 1/2 (X9DRFF-7+)
8	JTPM1: Trusted Platform Module Header
9	JSD1: SATA Device Power Connector
10	P1-DIMMB1 / P1-DIMMB2
11	P1-DIMMA1 / P1-DIMMA2
12	T-SGPIO 1/2: Intel SATA SGPIO

No.	Description
13	6-SGPIO 1/2: LSI SAS SGPIO
14	I-SATA2~5: Internal SATA 2.0 Ports
15	L-SAS 0~7: SAS 2.0 Connectors 0~7
16	I-SATA0~1: Internal SATA 3.0 Ports
17	P2-DIMME1 / P2-DIMME2
18	P2-DIMMF1 / P2-DIMMF2
19	CPU2 Socket
20	SXB1 CPU2 PCI-E 3.0 x32
21	P2-DIMMH1 / P2-DIMMH2
22	P2-DIMMG1 / P2-DIMMG2
23	P1-DIMMD1 / P1-DIMMD2
24	P1-DIMMC1 / P1-DIMMC2

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-DIMMD2
CPU 2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	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 & 10-16 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

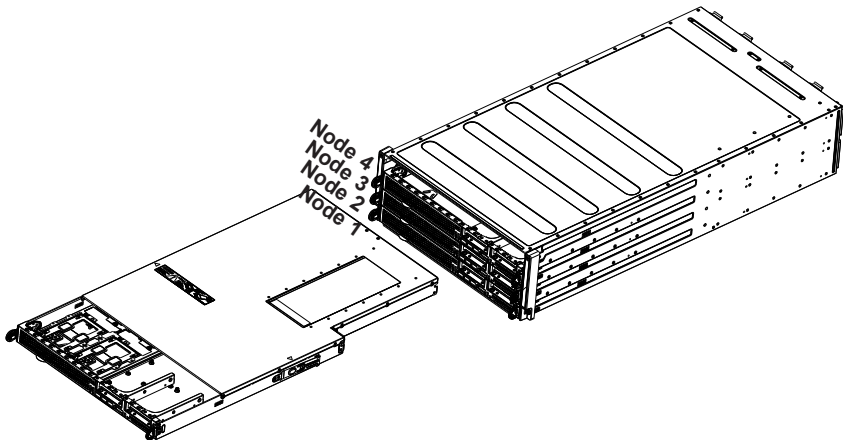
Installing RDIMM Memory

Intel E5-2600 v2 Series Processor RDIMM Memory Support											
Ranks per DIMM & Data Width	Memory Capacity (See the Note below)	Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)									
		2 Slots Per Channel					3 Slots Per Channel				
		1DPC		2DPC		1DPC		2DPC		3DPC	
		1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
SRx8	1GB 2GB 4GB	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	800	800, 1066
DRx8	2GB 4GB 8GB	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	800	800, 1066
SRx4	2GB 4GB 8GB	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	800	800, 1066
DRx4	4GB 8GB 16GB	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	800	800, 1066
QRx4	8GB 16GB 32GB	800	800, 1066	800	800	800	800, 1066	800	800	N/A	N/A
QRx8	4GB 8GB 16GB	800	800, 1066	800	800	800	800, 1066	800	800	N/A	N/A

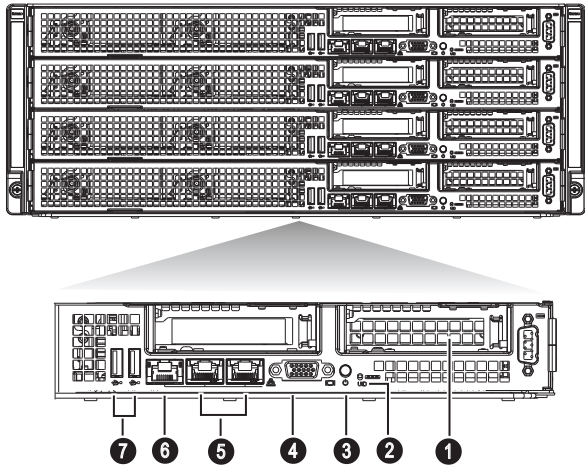
Installing UDIMM (ECC/non-ECC) Memory

Intel E5-2600 v2 Series Processor UDIMM Memory Support											
Ranks per DIMM & Data Width	Memory Capacity (See the Note below)	Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)									
		2 Slots Per Channel					3 Slots Per Channel				
		1DPC		2DPC		1DPC		2DPC		3DPC	
		1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
SRx8 Non-ECC	1GB 2GB 4GB	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600
DRx8 Non-ECC	2GB 4GB 8GB	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600
SRx16 Non-ECC	512MB 1GB 2GB	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600
SRx8 ECC	1GB 2GB 4GB	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600
QRx8 ECC	2GB 4GB 8GB	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600

Installing and Removing Hard Drives

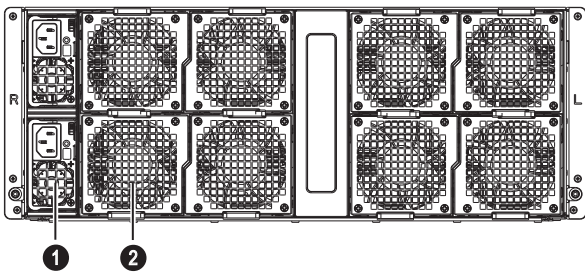


Front View & Interface



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

Rear View

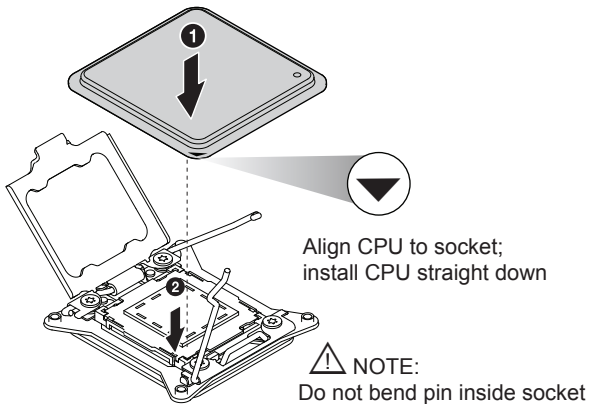


No.	Description
1	Power Supply Module
2	Rear Fan

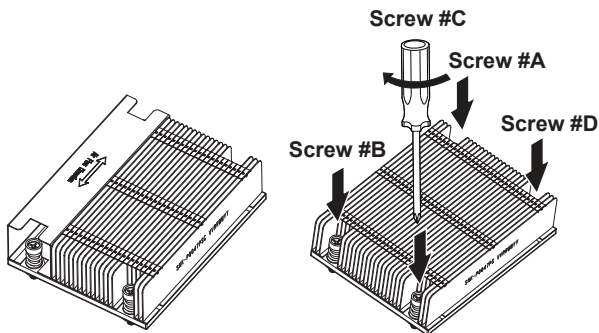
F414IS-R1K62B Chassis Nodes and Their Hard Drives

Node 4
Controls twelve (12) 3.5" HDDs, optional two (2) 2.5" HDDs, D1-D15
Node 3
Controls twelve (12) 3.5" HDDs, optional two (2) 2.5" HDDs, C1-C15
Node 2
Controls twelve (12) 3.5" HDDs, optional two (2) 2.5" HDDs, B1-B15
Node 1
Controls twelve (12) 3.5" HDDs, optional two (2) 2.5" HDDs, A1-A15

CPU Installation



Heatsink Installation



SNK-P0047PSC for CPU1 SNK-P0047PS 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>

