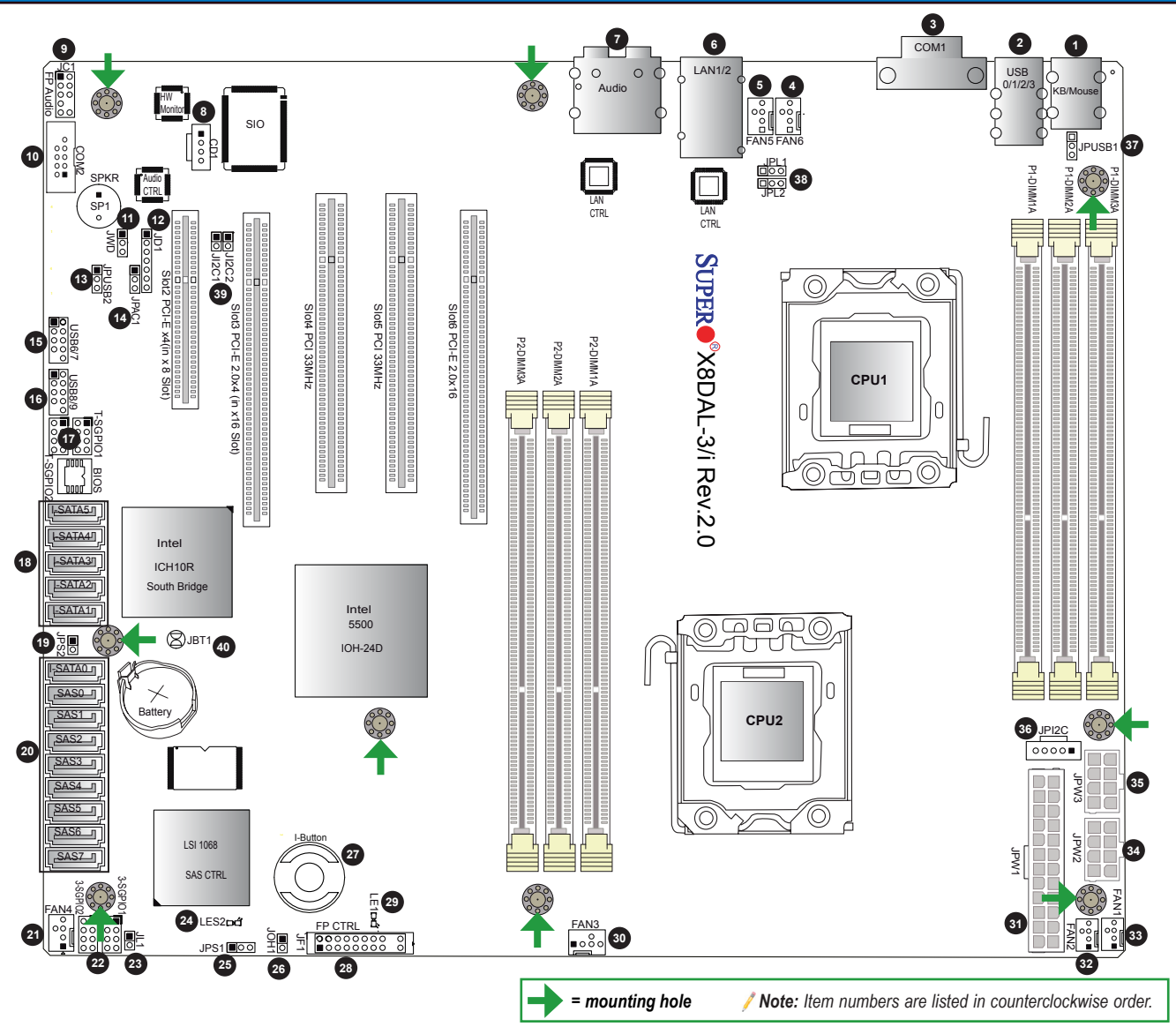


Motherboard Layout and Features



Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Item #	Description	Default
JBT1	40	CMOS Clear	See Chpt. 2 in User Manual
J ² C1/J ² C2	39	SMB to PCI/PCI-E Slots	Open/Open (Disabled)
JPAC1	14	Audio Enabled	Pins 1-2 (Enabled)
JPL1/JPL2	38	LAN1/2 Enable	Pins 1-2 (Enabled)
JPS1	25	SAS Enable (X8DAL-3 only)	Pins 1-2 (Enabled)
JPS2	19	SAS RAID Mode Select (X8DAL-3 only)	Closed (SR RAID)
JPUSB1	37	Backpanel USB Wake-Up	Pins 1-2 (Enabled)
JPUSB2	13	Front Access USB Wake-Up	Pins 2-3 (Disabled)
JWD	11	Watch Dog	Pins 1-2 (Reset)

Connectors

Connectors	Item#	Description
Audio	7	Audio Input, Output, Mic
CD1	8	CD-ROM Header
COM1, COM2	3, 10	COM1/COM2 Serial Port/Header
Fan 1-3	33, 32, 30	System/CPU Fan Headers (Fans 1-2: CPU Fans)
Fan 4-6	21, 5, 4	System Fan Headers
I-Button	27	I-Button for HostRAID Storage (X8DAL-3 only)
JC1	9	HD Audio Header
JD1	12	PWR LED/Speaker Header (Pins 4-7: Speaker)
JF1	28	Front Panel Connector
JL1	23	Chassis Intrusion Header
JOH1	26	Overheat LED Header
J ² C	36	Power Supply SMBus ² C Header
JPW1	31	24-pin ATX PWR
JPW2, JPW3	34, 35	8-pin Secondary PWR
KB/Mouse	1	Keyboard and PS/2 Mouse
LAN1, LAN2	6	G-LAN (RJ45) Ports
SAS 0-7	20	SAS Ports 0-7 (X8DAL-3 only)
I-SATA0 ~ I-SATA5	18	(Intel South Bridge) SATA Ports
3-SGPIO-1, 3-SGPIO-2	22	Serial General Purpose I/O HDRs for SAS (X8DAL-3 only)
T-SGPIO-1, T-SGPIO-2	17	Serial General Purpose I/O Headers for SATA
USB 0-3	2	Backplane Universal Serial Bus (USB) Ports
USB 6/7, 8/9	15, 16	Front Panel USB Connections

LED Indicators

LED	Item#	Description	State	Status
LE1	29	Onboard Standby PWR	On	System Power On
LES2 (for X8DA3)	24	SAS Heartbeat LED	Yellow: Blinking	SAS Normal

Memory Support

This motherboard supports up to 96 GB of Registered (RDIMM) ECC or up to 24 GB of Unbuffered (UDIMM) ECC/Non-ECC DDR3 800/1066/1333 MHz 3-channel (per CPU) memory in 6 DIMM slots.

Note: For memory optimization, use only DIMM modules that have been validated by Supermicro. For the latest memory updates, please refer to our website at <http://www.supermicro.com/products/motherboard>.

DIMM Installation

Insert the desired number of DIMMs into the memory slots, starting with P1-DIMM1A. For memory to work properly, follow the tables below for memory population order. Refer to the motherboard layout (at left) for the location of the DIMM slots.

Memory Population for Optimal Performance -For a motherboard with One CPU (CPU1) installed

	Branch 0	Branch 1	Branch 2
3 DIMMs	P1 DIMM1A	P1 DIMM2A	P1 DIMM3A

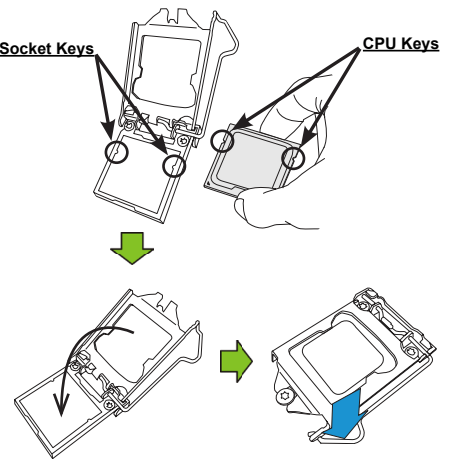
Memory Population for Optimal Performance -For a motherboard with One CPU (CPU2) installed

	Branch 0	Branch 1	Branch 2
3 DIMMs	P2 DIMM1A	P2 DIMM2A	P2 DIMM3A

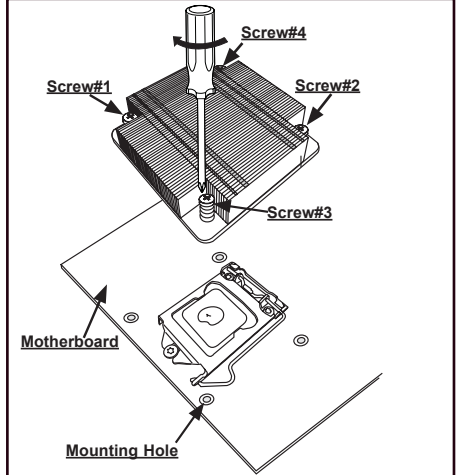
Memory Population for Optimal Performance -For a motherboard with Two CPUs installed

	CPU1			CPU2		
	Branch 0	Branch 1	Branch 2	Branch 0	Branch 1	Branch 2
6 DIMMs	P1-DIMM1A	P1-DIMM2A	P1-DIMM3A	P2-DIMM1A	P2-DIMM2A	P2-DIMM3A

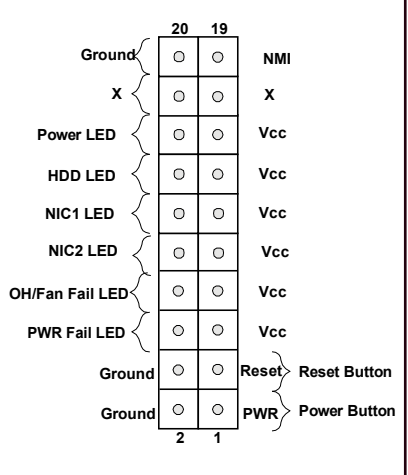
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Note: Graphics shown in this quick guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

Note: Refer to Chapter 2 of the User Manual on detailed information on jumpers, connectors, and LED indicators.

Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.