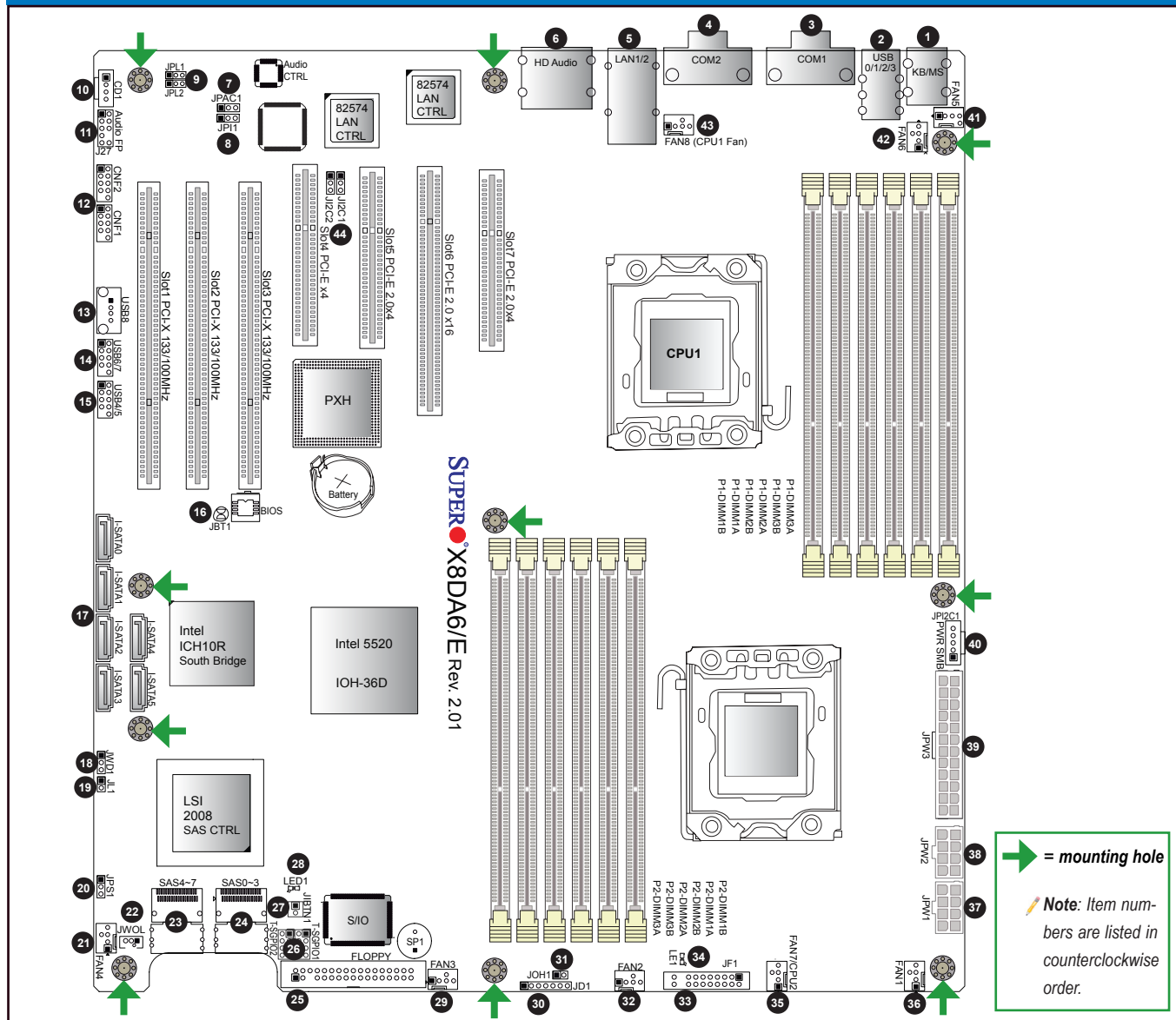


Motherboard Layout and Features



Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Item #	Description	Default
JBT1	16	CMOS Clear	See Chapter 2 in User Manual
J ² C1, J ² C2	44	SMB (I ² C) to PCI-X Slots	Pins 2-3 (Disabled)
JPAC1	7	Audio Enable	Pins 1-2 (Enabled)
JPL1, JPL2	9	GLAN 1/2 Enable	Pins 1-2 (Enabled)
JPI1	8	CNF1, CNF2 (1394a_1/2) Enable	Pins 1-2 (Enabled)
JPS1	20	SAS Enable (X8DA6 only)	Pins 1-2 (Enabled)
JWD1	18	Watch Dog	Pins 1-2 (Reset)

Connectors

Connectors	Item#	Description
Audio	6	Audio Input/Output and Mic
CD1	10	CD-ROM
Audio FP (J27)	11	Front Panel HD Audio Headers
CNF1, CNF2	12	IEEE 1394a Connectors 1/2
COM1, COM2	3, 4	COM1 and COM2 Serial Ports
FAN 1-4	36, 32, 29, 21	System Fan Headers
Fans 5-8	41, 42, 35, 43	System/CPU Fan Headers (Fans 7-8: CPU Fans)
Floppy	25	Floppy Disk Drive Connector
JD1	30	Speaker/Power LED Header
JF1	33	Front Panel Connector
JIBTN1	27	RAIDKey for RAID5 support (X8DA6 only)
JL1	19	Chassis Intrusion Header
JOH1	31	Overheat LED Header
JPI ² C1	40	SMB Power Supply I ² C Header
JPW1, JPW2	37, 38	+12V 8-pin Secondary PWR Connector
JPW3	39	24-pin ATX Main Power Connector
JWOL	22	Wake-On-LAN Header
KB/MS	1	PS/2 Keyboard and Mouse
LAN1/2	5	Gigabit Ethernet (RJ45) Ports
I-SATA0 ~ I-SATA5	17	(Intel South Bridge) SATA Ports
SAS 0-3, 4-7	24, 23	SAS Connectors (X8DA6 only)
T-SGPIO-1, T-SGPIO-2	26	Serial General Purpose Input/Output Headers
USB 0/1/2/3	2	(Back Panel) Universal Serial Bus (USB) Ports
USB 4/5, 6/7, 8	15, 13, 14	Front Panel Accessible USB Headers

LED Indicators

LED	Item#	Description	State	Status
LE1	34	Onboard Standby PWR	On	System Power On
LED1	28	SAS LED (X8DA6 only)	On	SAS Normal

Memory Support

This motherboard supports up to 192 GB of Registered (RDIMM) ECC or up to 48 GB of Unbuffered (UDIMM) ECC/Non-ECC DDR3 800/1066/1333 MHz 3-channel (per CPU) memory in 12 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		
6 DIMMs	P1 DIMM1A	P1 DIMM1B		P1 DIMM2A	P1 DIMM2B		P1 DIMM3A	P1 DIMM3B	

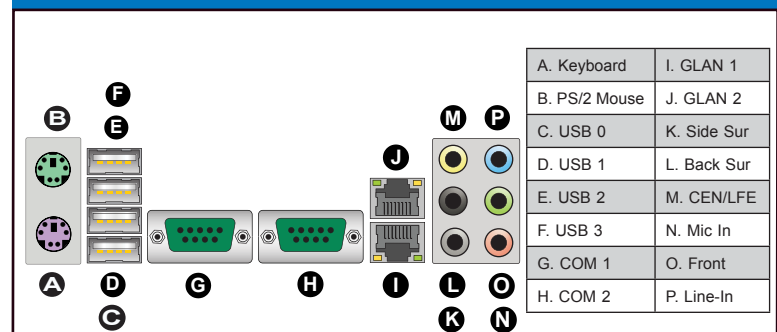
Memory Population for Optimal Performance -For a motherboard with One CPU (CPU2) installed

	Branch 0			Branch 1			Branch 2		
3 DIMMs	P2 DIMM1A			P2 DIMM2A			P2 DIMM3A		
6 DIMMs	P2 DIMM1A	P2 DIMM1B		P2 DIMM2A	P2 DIMM2B		P2 DIMM3A	P2 DIMM3B	

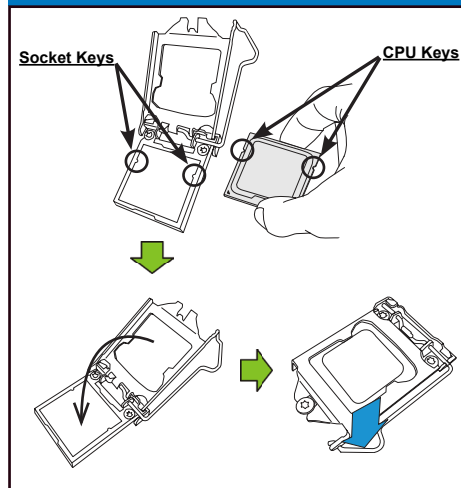
Memory Population for Optimal Performance -For a motherboard with Two CPUs installed

	CPU1						CPU2					
	Branch 0		Branch 1		Branch 2		Branch 0		Branch 1		Branch 2	
6 DIMMs	1A		2A		3A		1A		2A		3A	
12 DIMMs	1A	1B	2A	2B	3A	3B	1A	1B	2A	2B	3A	3B

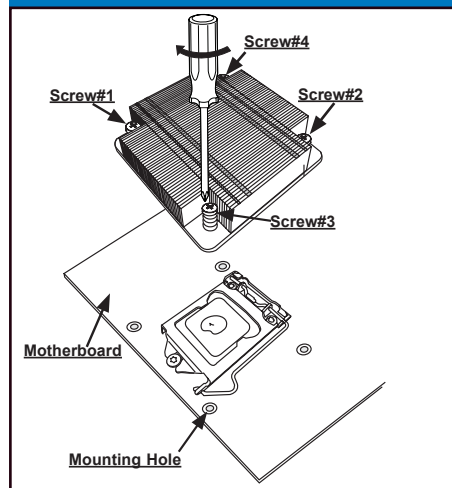
Back Panel IO Connectors



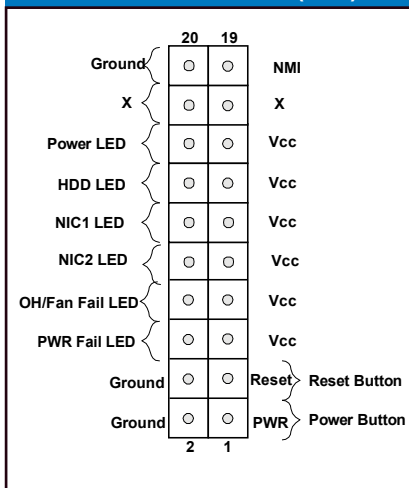
CPU Installation



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.