

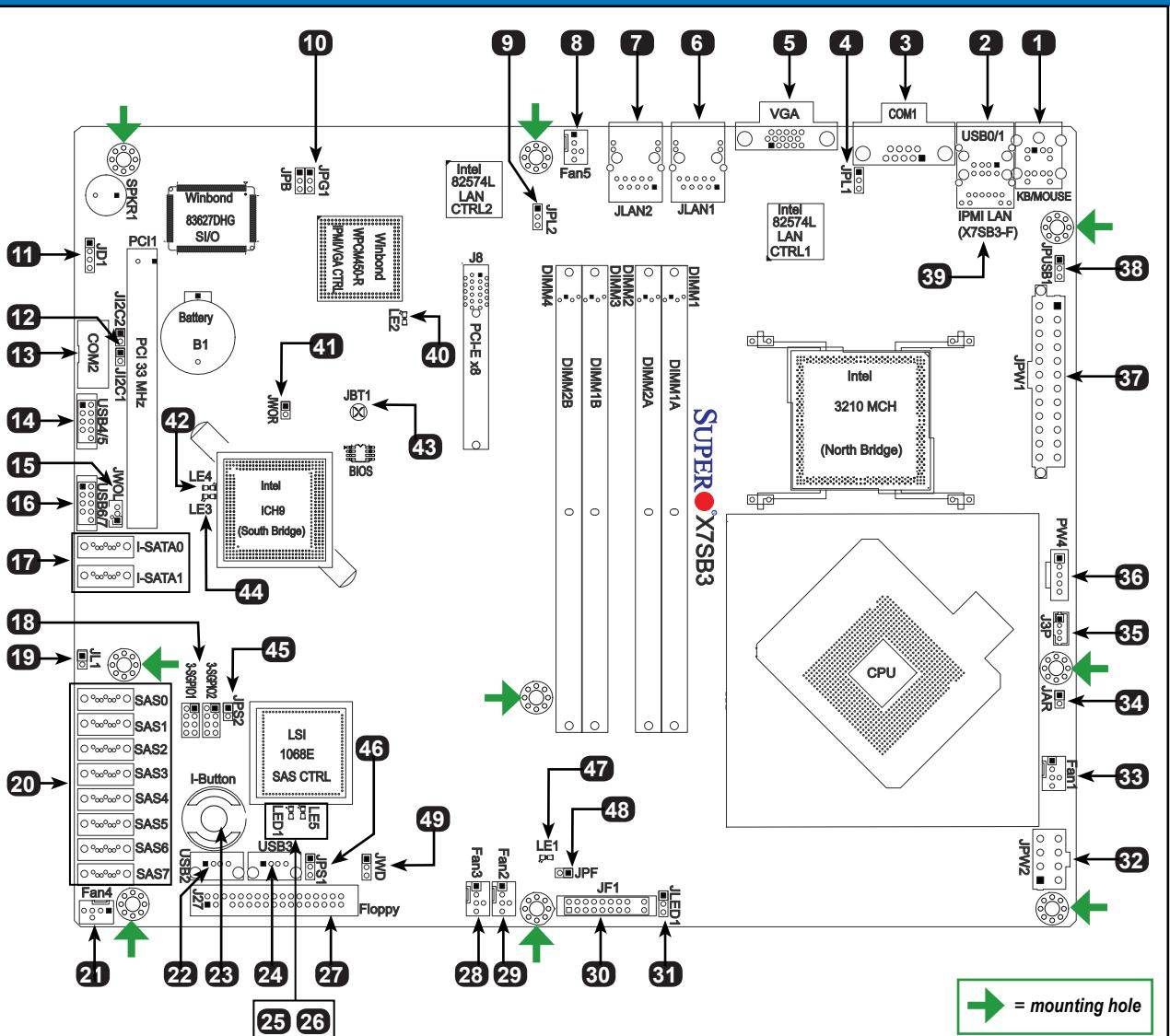
CONTACT INFORMATION

- www.supermicro.com (Email: support@supermicro.com)
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: [ftp://ftp.supermicro.com](http://ftp.supermicro.com)
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

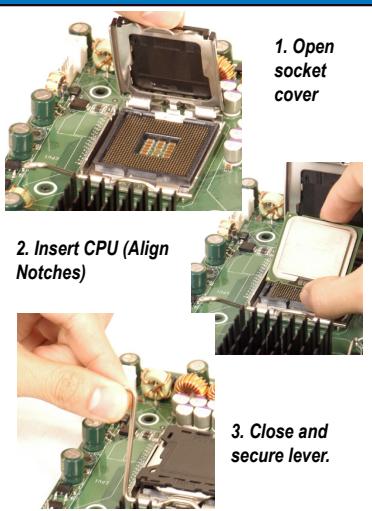
PACKAGE CONTENTS (Applies to individual-pack only)

- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- One (1) Floppy Drive Ribbon Cable
- One (1) I/O Shield
- One (1) Quick Reference Guide

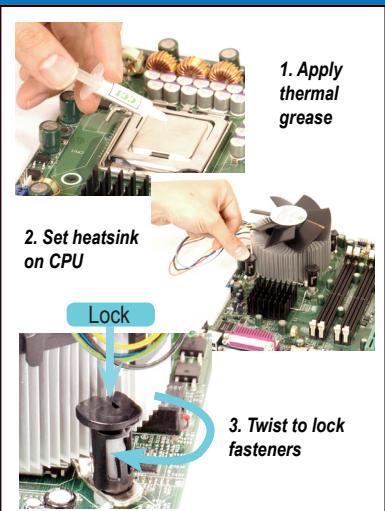
Motherboard Layout and Features



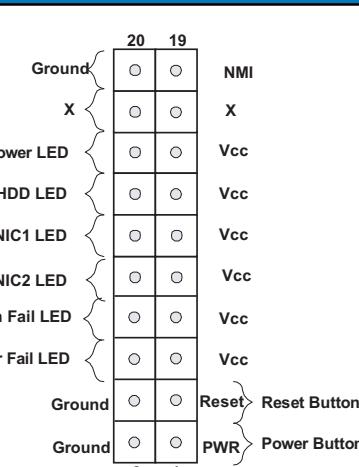
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Jumpers, Connectors and LED Indicators

Jumpers

Item #	Jumper	Description	Default
4, 9	JPL1, JPL2	LAN1/2 Enable/Disable	Pins 1-2 (Enabled)
10	JPG1	(BMC) VGA Enable	Pins 1-2 (Enabled)
12	JPC1/JPC2	SMB to PCI slots Enable	Off (Disabled)
38	JPUSB1	BP USB Wake-up Enable	Pins 1-2 (Enabled)
43	JBT1	CMOS Clear	(See Chpt. 2 in User Manual)
45	JPS2	SAS ID/RAID Mode Select	Closed (Software RAID)
46	JPS1	SAS Enable/Disable	Pins 1-2 (Enabled)
48	JPF	Power Force-On	Off (Normal)
49	JWD	Watch Dog	Pins 1-2 (Reset)

Connectors

Item #	Connector	Description
1	KB/Mouse	PS/2 Keyboard and Mouse
2	USB 0/1	Back Panel USB Ports
3, 13	COM1, COM2	COM Port 1, COM2 Header
5	VGA	VGA Connector
6, 7	JLAN1, JLAN2	Gigabit Ethernet (RJ45) Ports
8, 21, 28, 29, 33	Fan 5, 4, 3, 2, 1	Chassis and System Fans (CPU: Fan 1)
11	JD1	Onboard Speaker Header (Pins 3-4: Internal)
14, 16	USB 4/5, 6/7	Front Panel USB Ports
15	JWOL	Wake-On-LAN Header
17	I-SATA 0/1	Serial ATA Ports
18	3-SGPIO 1/2	Serial-Link General Purpose I/O Headers
19	JL1	Chassis Intrusion Header
20	SAS 0~7	Serial Attached SCSI Connectors
22, 24	USB 2, USB 3	Front Panel Accessible USB Connectors
23	I-Button	I-Button Socket (see page 2-25 in User Manual)
27	Floppy	Floppy Drive Connector
30	JF1	Front Panel Control Connector
31	JLED1	Onboard Power LED
32	JPW2	12V 8-Pin Auxiliary PWR Connector
34	JAR	Alarm Reset
35	J3P (Optional)	Redundant PWR Fail Detect (for internal use)
36	PW4	Power Supply SMB (I ² C) Connector (X7SB3-F only)
37	JPW1	ATX Main Power Connector
39	IPMI LAN	Dedicated LAN for IPMI (X7SB3-F only)
41	JWOR	Wake-On-Ring Header

LED Indicators

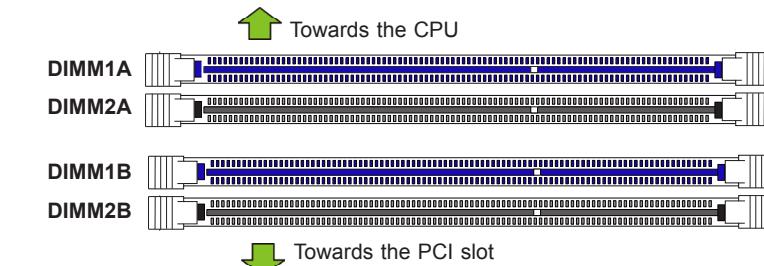
Item #	LED	Description	Color/State	Status
25	LED1	SAS Activity LED	Green: Blinking	SAS Active
26	LE5	SAS Heartbeat LED	Yellow: Blinking	SAS Ready
42, 44	LE4, LE3	BIOS POST Codes LED	Reserved for Internal Use	
40	LE2	IPMI Heartbeat LED (X7SB3-F only)	Green: Blinking	IPMI Ready
47	LE1	Onboard Standby Power LED	Green: On	Power On

Memory Support

This motherboard supports up to 8 GB of Unbuffered (UDIMM) DDR2 ECC/Non-ECC 800/667 MHz memory in 4 memory 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



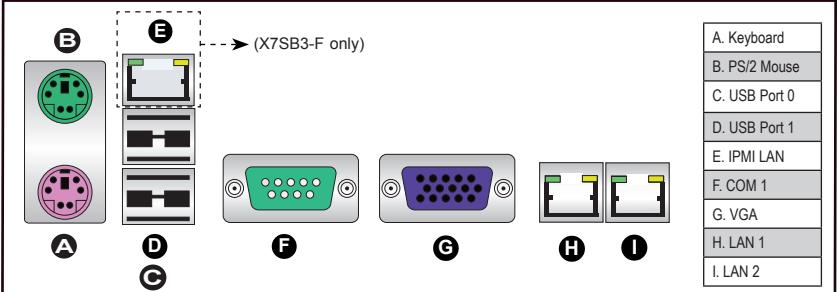
Insert the desired number of DIMMs into the memory slots, starting with DIMM #1A, #1B, then #2A and #2B.

Possible System Memory Allocation & Availability		
System Device	Size	Physical Memory Remaining (-Available) (4 GB Total System Memory)
Firmware Hub flash memory (System BIOS)	1 MB	3.99 GB
Local APIC	4 KB	3.99 GB
Area Reserved for the chipset	2 MB	3.99 GB
I/O APIC (4 Kbytes)	4 KB	3.99 GB
PCI Enumeration Area 1	256 MB	3.76 GB
PCI Express (256 MB)	256 MB	3.51 GB
PCI Enumeration Area 2 (if needed) -Aligned on 256-MB boundary-	512 MB	3.01 GB
VGA Memory	16 MB	2.85 GB
TSEG	1 MB	2.84 GB
Memory available for the OS & other applications		2.84 GB

Notes:

1. Due to OS limitations, some operating systems may not show more than 4GB of memory.
2. Due to memory allocation to system devices, memory remaining available for operational use will be reduced when 4 GB of RAM is used.

Back Panel IO Connectors



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