

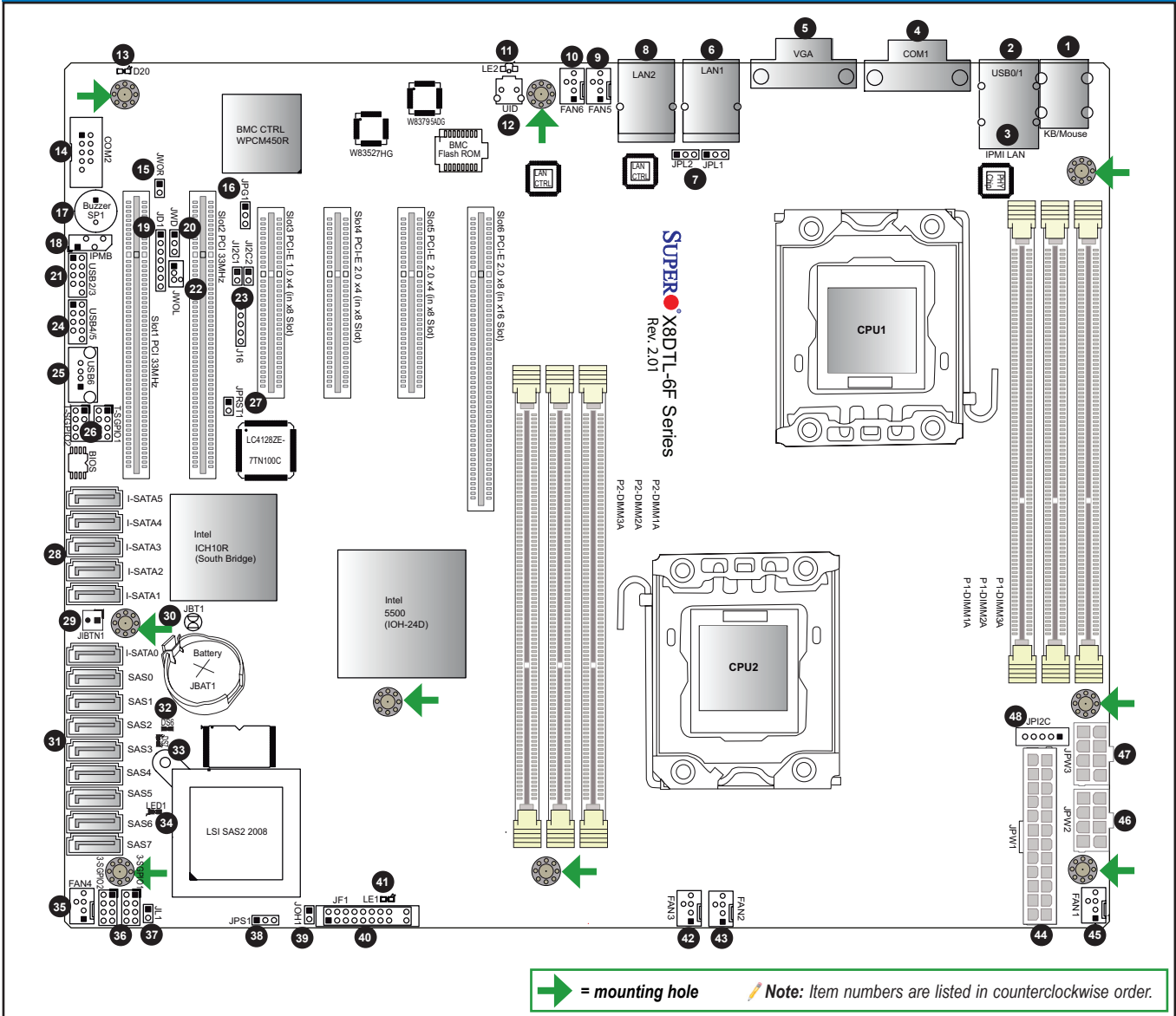
CONTACT INFORMATION

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

PACKAGE CONTENTS (Applies to single-pack only)

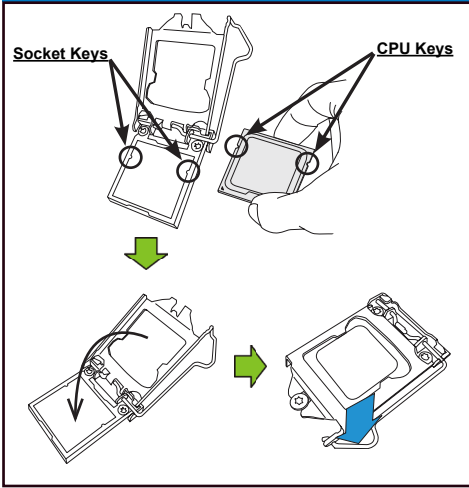
- One (1) Supermicro Motherboard
- Eight (8) Serial ATA Cables (X8DTL-6/-6F)
- One (1) IO Back Panel Shield

Motherboard Layout and Features

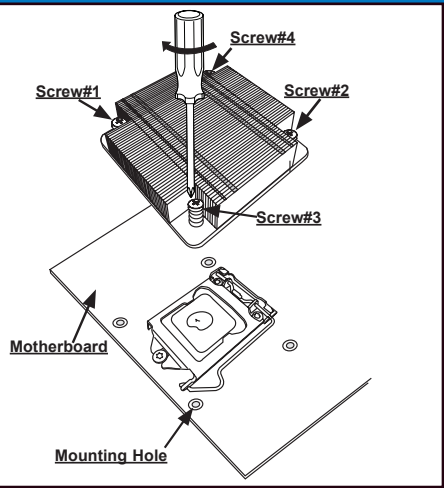


→ = mounting hole    Note: Item numbers are listed in counterclockwise order.

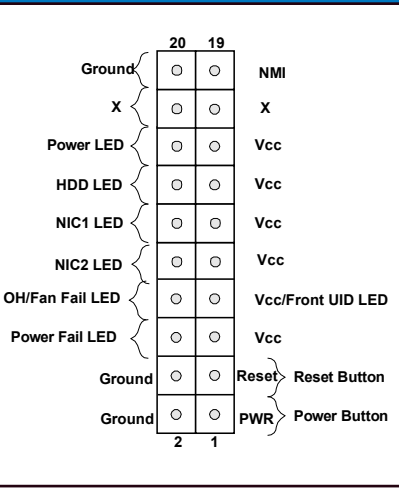
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Item #	Description	Default
JBT1	30	CMOS Clear	Open (Normal)
J12C1, J12C2	23	SMB to PCI/PCI-E Slots	Open/Open (Disabled)
JPG1	16	VGA Enabled	Pins 1-2 (Enabled)
JPL1, JPL2	7	LAN1/2 Enable	Pins 1-2 (Enabled)
JPRST1	27	Alarm Reset Enable	Pins 1-2 (Enabled)
JPS1	38	SAS Enable	Pins 1-2 (Enabled) (X8DTL-6F/6L)
JWD	20	Watch Dog	Pins 1-2 (Reset)

Connectors

Connectors	Item#	Description
COM1, COM2	4, 14	COM1, COM2 Serial Port/Header
Fans 1~3	45, 43, 42	System/CPU Fan Headers (Fans 1~2: CPU Fans)
Fan 4~6	35, 9, 10	System Fan Headers
IPMB	18	IPMB I2C Header (for an IPMI card) (X8DTL-6F)
IPMI LAN	3	IPMI Dedicated LAN (for X8DTL-6/-6F only)
JD1	19	PWR LED/Speaker Header (Pins 4~7: Speaker)
JF1	40	Front Panel Connector
JIBTN1	29	RAIDKey Header
JL1	37	Chassis Intrusion Header
JOH1	39	Overheat LED Header
JPI2C	48	Power Supply SMBus I2C Header
JPW1	44	24-pin ATX PWR
JPW2, JPW3	46, 47	8-pin Secondary PWR
JWOL	22	Wake-On-LAN Header
JWOR	15	Wake-On-Ring Header
KB/Mouse	1	PS/2 Keyboard and Mouse
LAN1, LAN2	6, 8	G-LAN (RJ45) Ports
I-SATA0 ~ I-SATA5	28	(Intel South Bridge) SATA Ports
SAS 0~7	31	SAS Ports 0~7 (for X8DTL-6F/-6L only)
3-SGPIO-1, 3-SGPIO-2	36	Serial General Purpose I/O Headers for SAS (X8DTL-6F/6)
T-SGPIO-1, T-SGPIO-2	26	Serial General Purpose I/O Headers for SATA
SP1	17	Internal Speaker/Buzzer
USB 0/1, 2/3, 4/5, 6	2, 21, 24, 25	Universal Serial Bus (USB) Ports
UID	12	Rear Unit Identify Switch
VGA	5	VGA Connector

LED Indicators

LED	Item#	Description	State	Status
D20	13	BMC Heartbeat LED Indicator	Green: Blinking	BMC Normal
DS6	32	SAS Error LED	Green: Blinking	Normal
DS7	33	SAS Heartbeat LED	Green: Blinking	Normal
LE1	41	Onboard Standby LED Indicator	Green	System Power On
LE2	11	Rear UID LED		
LED1	34	Reserved		

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  
(To Populate P1-DIMM slots)

	Branch 0	Branch 1	Branch 2
3 DIMMs	P1-1A	P1-2A	P1-3A

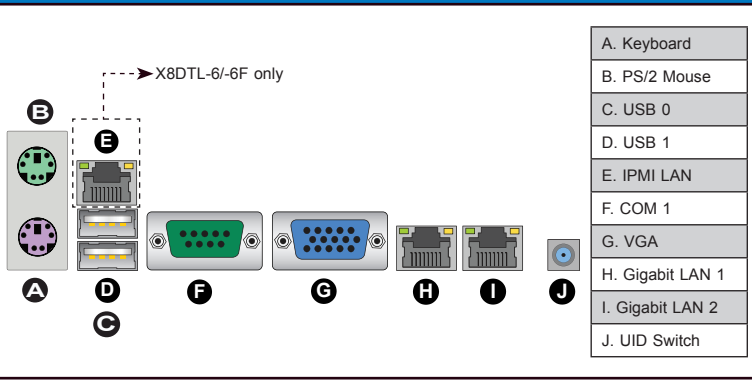
Memory Population for Optimal Performance  
For a motherboard with One CPU (CPU2) installed  
(To Populate P2-DIMM slots)

	Branch 0	Branch 1	Branch 2
3 DIMMs	P2-1A	P2-2A	P2-3A

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

	CPU1 (To populate P1-DIMMs)			CPU2 (To populate P2-DIMMs)		
	Branch 0	Branch 1	Branch 2	Branch 0	Branch 1	Branch 2
6 DIMMs	P1-1A	P1-2A	P1-3A	P2-1A	P2-2A	P2-3A

Back Panel IO Connectors



**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.