Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Item #	Description	Default
JBT1	18	Clear CMOS	See Chpt. 3 in User Manual
JI²C1, JI²C2	19	SMB to PCI-E Slots	Open (Disabled)
JPG1	14	VGA Enable	Pins 1~2 (Enabled)
JPL1	17	GLAN Ports Enable	Pins 1-2 (Enabled)
JWD	20	Watch Dog	Pins 1~2 (Reset)

Connectors

Connectors	Item#	Description
COM1, COM2	7, 23	COM Port 1, COM2 Header
FAN 1~4	38, 36, 33, 28	System Fan Headers
Fans 5~8	1, 2, 42, 12	CPU/System Fan Headers (Fans 7, 8: CPU Fans)
IPMB	21	4-pin BMC I²C Header (for an IPMI Card)
I-SATA 0~5	27	Intel SB SATA Connectors 0~5
JD1	34	Speaker/Power LED Indicator
JF1	37	Front Panel Control Header
JL1	22	Chassis Intrusion
JPI²C1	43	Power Supply SMBbus I²C Header
JPW1	41	ATX 24-Pin Power Connector
JPW2, JPW3	40, 39	12V 8-Pin Power Connectors
JTPM1	24	Trusted Platform Support Header
JWF1	29	SATA DOM (Disk On Module) PWR
JWOR1	16	Wake On Ring Header
KB/MS	3	PS2 Keyboard/Mouse
LAN1, LAN2	9, 10	G-bit Ethernet Ports 1/2
(IPMI) LAN	4	IPMI Dedicated LAN
T-SGPIO 1/2	32	Serial Link General Purpose I/O Headers
USB 0/1, 2/3	5, 6	Back Panel USB 0/1, 2/3
USB 4/5, 6/7, 8, 10	31, 30, 26, 25	Front Panel Accessible USB Connections
UID SW1	11	UID (Universal Identifier) Switch
VGA	8	Backpanel VGA Port

LED Indicators

LED	Item#	Description	State	Status
LE1	35	Standby PWR LED	Green: On	PWR On
LE2	13	UID Switch LED	Blue	Unit Identified
LEM1	15	BMC Heartbeat LED	Green: Blinking	BMC Normal

Memory Support

This motherboard supports up to 288 GB of Registered (RDIMM)/Load Reduced (LRDIMM) ECC or up to 48 GB of Unbuffered (UDIMM) ECC/Non-ECC DDR3 800/1066/1333 MHz 3-channel (per CPU) memory in 18 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 Support for the Motherboard with the 5000 Processor(s) Installed

Memory Population for Optimal Performance -For a Motherboard with One CPU (CPU1) Installed

P1-DIMMs	To Populate P1-DIMMs								
	Branch 0			Branch 1			Branch 2		
3 DIMMs	P1-1A			P1-2A			P1-3A		
6 DIMMs	P1-1A	P1-1B		P1-2A	P1-2B		P1-3A	P1-3B	
9 DIMMs (RDIMMs only) (Note)	P1-1A	P1-1B	P1-1C	P1-2A	P1-2B	P1-2C	P1-3A	P1-3B	P1-3C

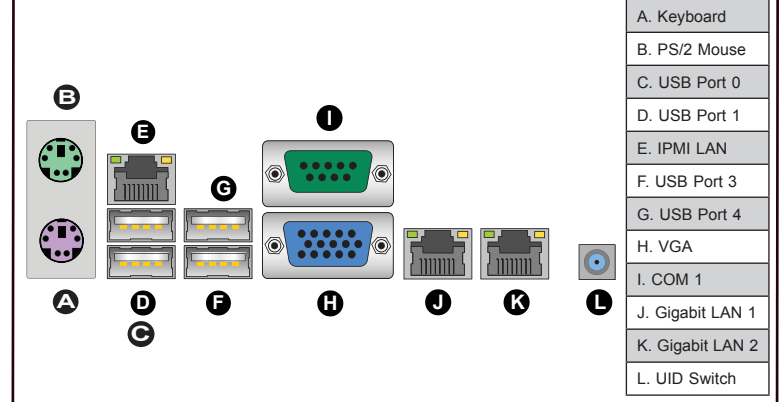Note: Max. of 6 UDIMM modules are supported by a CPU.

Memory Population for Optimal Performance -For a Motherboard with Two CPUs Installed

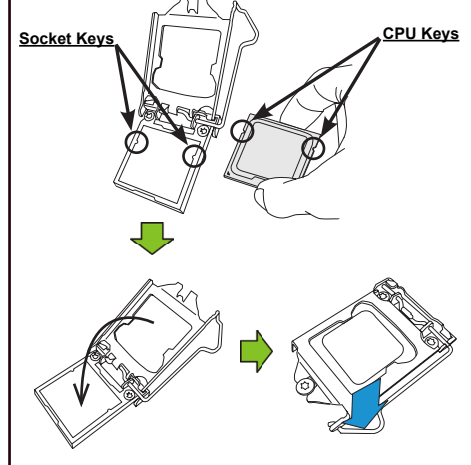|	CPU 1 (To Populate P1-DIMMs)			CPU 2 (To Populate P2-DIMMs)		
	Branch 0	Branch 1	Branch 2	Branch 0	Branch 1	Branch 2
6 DIMMs	P1-1A	P1-2A	P1-3A	P2-1A	P2-2A	P2-3A
12 DIMMs	P1-1A/1B	P1-2A/2B	P1-3A/3B	P2-1A/1B	P2-2A/2B	P2-3A/3B
18 DIMMs (For RDIMMs only) (Note)	P1-1A/1B/1C	P1-2A/2B/2C	P1-3A/3B/3C	P2-1A/1B/1C	P2-2A/2B/2C	P2-3A/3B/3C

Note: Max. of 6 UDIMM modules are supported by a CPU.

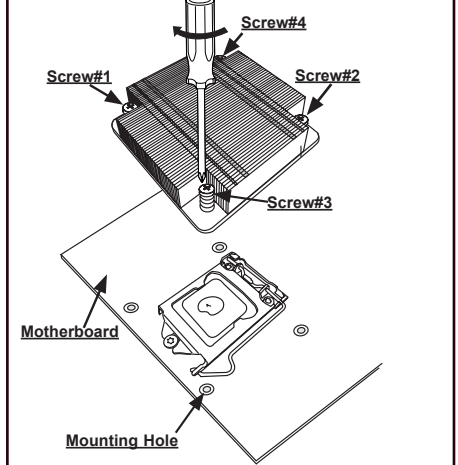*Note: Refer to Chapter 2 of the User Manual for additional memory support.*
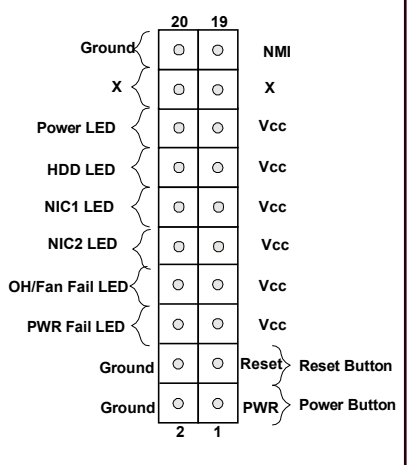
Back Panel IO Connectors

A. Keyboard
B. PS/2 Mouse
C. USB Port 0
D. USB Port 1
E. IPMI LAN
F. USB Port 3
G. USB Port 4
H. VGA
I. COM 1
J. Gigabit LAN 1
K. Gigabit LAN 2
L. UID Switch

Motherboard Layout

P1 DIMM3A, P1 DIMM3B, P1 DIMM3C, P1 DIMM2A, P1 DIMM2B, P1 DIMM2C, P1 DIMM1A, P1 DIMM1B, P1 DIMM1C

P2 DIMM3A, P2 DIMM3B, P2 DIMM3C, P2 DIMM2A, P2 DIMM2B, P2 DIMM2C, P2 DIMM1A, P2 DIMM1B, P2 DIMM1C

SUPER X8DTN+-F Rev. 2.00

= mounting hole

Note: Item numbers are listed in counterclockwise order.

CPU Installation

Socket Keys, CPU Keys

Heatsink Installation

Screw#1, Screw#2, Screw#3, Screw#4, Motherboard, Mounting Hole

Front Panel Control (JF1)

20		19
Ground		NMI
X		X
Power LED		Vcc
HDD LED		Vcc
NIC1 LED		Vcc
NIC2 LED		Vcc
OH/Fan Fail LED		Vcc
PWR Fail LED		Vcc
Ground		Reset (Reset Button)
Ground		PWR (Power Button)
2		1

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 for 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.