

CONTACT INFORMATION

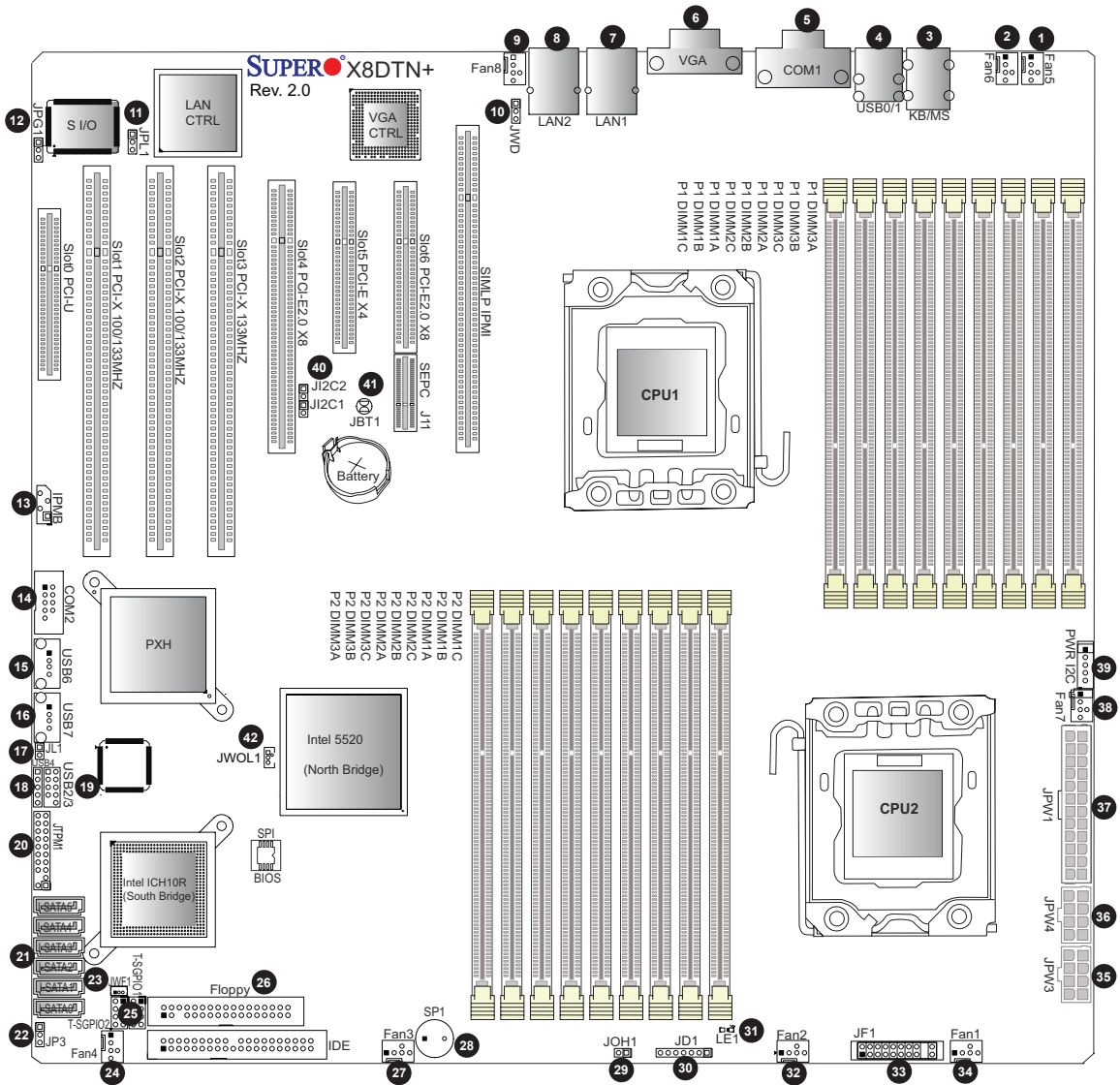
- www.supermicro.com (Email: support@supermicro.com)
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <ftp://ftp.supermicro.com>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

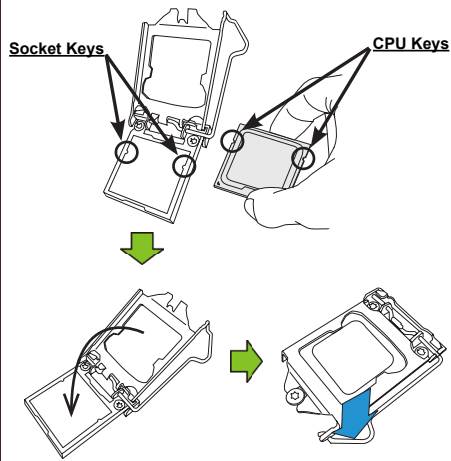
(Applies to single-pack only)

- One (1) Supermicro Motherboard
- Six (6) Serial ATA Cables
- One (1) Ribbon Cable for IDE Devices
- One (1) Floppy Ribbon Cable
- One (1) COM Port Cable
- One (1) 2-port USB 2.0 cable
- One (1) I/O Back Panel Shield

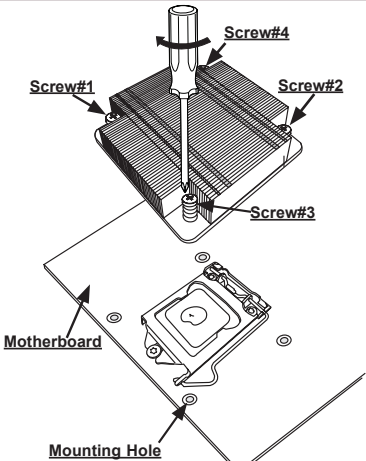
Motherboard Layout and Features



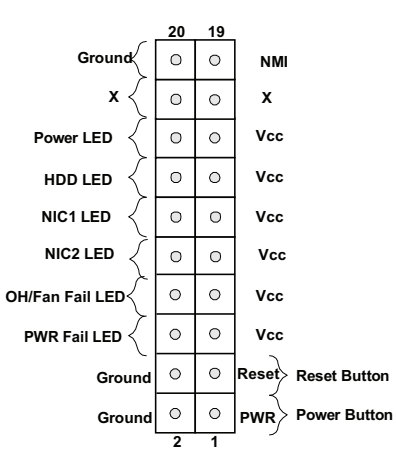
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Item #	Description	Default
JBT1	41	CMOS Clear	See Chpt. 2 in User Manual
J12C1, J12C2	40	SMB to PCI-Exp./ SMB to PCI-X Slots	Open (Disabled)
JP3	22	IDE Master/Slave Select	1-2 (Master)
JPG1	12	VGA Enable	1-2 (Enable)
JPL1	11	LAN1/2 Enable	Pins 1-2 (Enabled)
JWD	10	Watch Dog Enable	Pins 1-2 (Reset)

Connectors

Connectors	Item#	Description
COM1, COM2	5, 14	COM Port 1, COM2 Header
FAN 1~4	34, 32, 27, 24	System/CPU Fan Headers
Fan 5~8	1, 2, 38, 9	System/CPU Fan Headers (Fans 7 and 8: CPU Fans)
Floppy	26	Floppy Disk Drive Connector
IPMB (J14)	13	IPMB I2C Header (for an IPMI card)
I-SATA 0~5	21	(Intel South Bridge) SATA Ports
JD1	30	PWR LED/Speaker Header (Pins1~3: PWR LED, 4~7: SPKR)
JF1	32	Front Panel Connector
JL1	17	Chassis Intrusion Header
JOH1	29	Overheat LED Header
JPW1	37	24-pin ATX Main Power Connector (Required)
JPW3, JPW4	35, 36	8-pin 12-V Power Connectors
JTPM1	20	TPM (Trusted Platform Module) Header
JWF1	23	Compact Flash Power Connector
JWOL1	42	Wake-On-LAN Header
KB/MS	3	PS/2 Keyboard and Mouse
LAN1, LAN2	7, 8	Gigabit Ethernet (RJ45) Ports
PWR I2C (J15)	39	Power SMB (I2C) Header
SP1	28	Internal Buzzer
T-SGPIO-1 T-SGPIO-2	25	Serial General Purpose Input/Output Headers
USB 0/1	4	(Back Panel) Universal Serial Bus (USB) Ports
USB 2/3, 4, 6, 7	19, 18, 15, 16	Front Panel Accessible USB Headers
VGA	6	VGA Connector

LED Indicators

LED	Item#	Description	State	Status
LE1	31	Onboard Standby PWR	On	System Power On

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

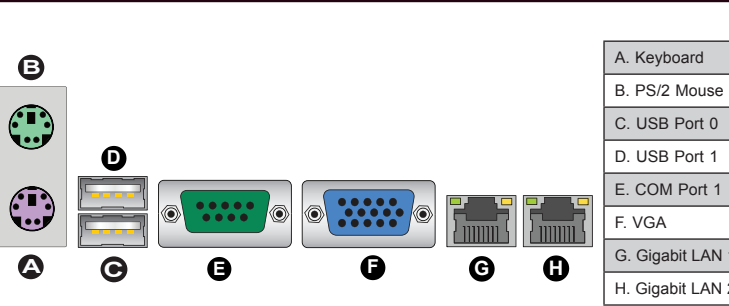
Note: Max. of 6 UDIMM modules are supported by a CPU.

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



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.