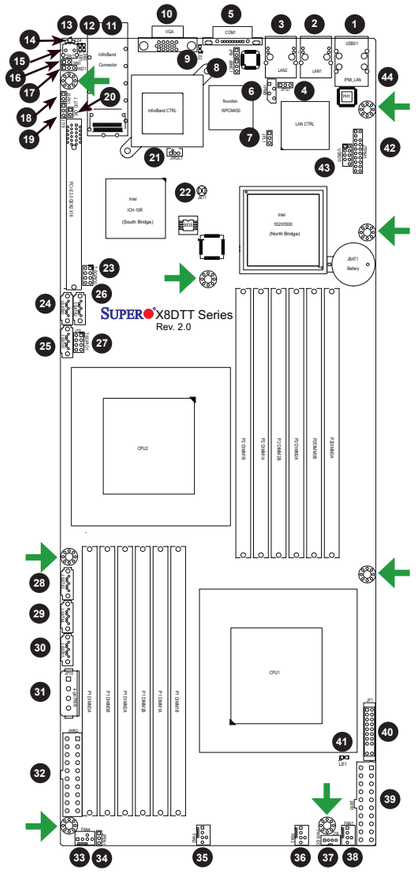
SUPERMICRO®
X8DTT
Quick Reference Guide

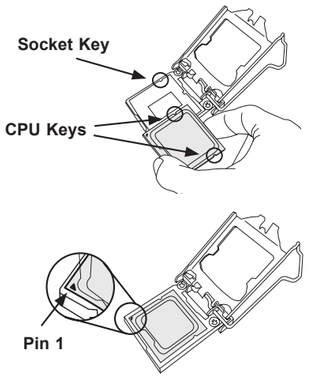
Contact Information
- www.supermicro.com (Email: support@supermicro.com)
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: ftp://ftp.supermicro.com
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One (1) Supermicro Motherboard
- Two (2) SATA Cables

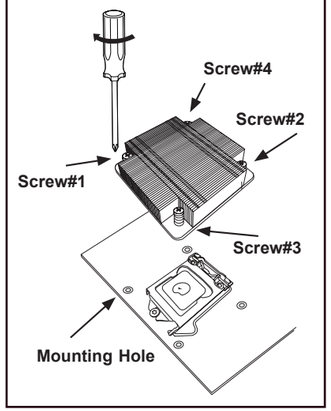
Motherboard Layout and Features



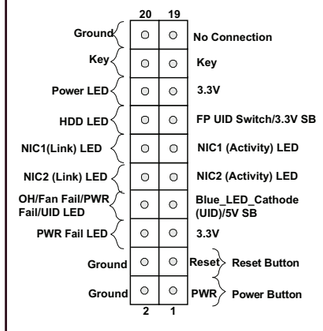
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

Jumpers, Connectors and LED Indicators

Jumpers

Jumper	Item#	Description	Default Setting
JMBC1	8	BMC Enable (X8DTT-F/-IBXF/-IBQF)	Pins 1-2 (Enabled)
JBT1	22	CMOS Clear	Short: Clear CMOS Open: Normal Operation (Default)
JPEN1	34	Normal Power Enable	Pins 1-2 (Enabled)
JPG1	4	VGA Enabled	Pins 1-2 (Enabled)
JPL1	7	LAN 1/2 Enable	Pins 1-2 (Enabled)
J_UID_OW	20	Red LED OW (Pins 7-8 of JF1)	Off (Overwrites)
JWD1	17	Watch Dog	Pins 1-2 (Reset)

Connectors

Connectors	Item#	Description
COM1	5	COM1 Serial Port
FAN 1-4	38, 36, 35, 33	System/CPU Fan Headers
InfiniBand	11	InfiniBand Connector (X8DTT-/IBXF/IBQ/IBQF
IPMB	6	IPMB Header (for an IPMI Card) (X8DTT-F/-IBXF/-IBQF)
J119	19	InfiniBand I²C Debug Header (-/IBX/IBXF/IBQF)
JF1	40	Front Panel Connector
JNMI1	16	NMI (Non-Maskable Interrupt) Header
JP10	31	Onboard 4-pin Power Connector
JPSK1	18	Internal Speaker/Buzzer Header
JTPM1	42	Trusted Platform Module Header
JWR1/JWR2	39, 32,	12V 20-pin Power Connector
JWOL1	21	Wake-On-LAN Header
LAN1/2	2, 3	Gigabit Ethernet (RJ45) Ports
(IPMI Dedicated) LAN	44	LAN (RJ45) Port for IPMI 2.0 (X8DTT-F/-IBXF/-IBQF
SATA0 ~ SATA 5	24, 25, 26, 28, 29, 30	(Intel South Bridge) SATA Ports
SMBus	37	System Management Bus (SMBus) I²C Header (J18)
SW1	15	Unit Identifier Switch
T-SGPIO-0/T-SGPIO-1	23, 27	Serial General Purpose Input/Output Headers
USB0/1, USB 2/3	1, 43	Universal Serial Bus (USB) Ports 0/1, 2/3
VGA	10	Video Port

LED Indicators

LED	Item#	Description
LE1	41	Onboard Standby PWR warning LED Indicator
LE2	9	BMC Heartbeat LED (Green/Blinking: Normal) (X8DTT-F/-IBXF/-IBQF)
LE4	14	(Rear) Unit Identifier (UID) LED Indicator
LEB1	13	InfiniBand Link LED (X8DTT-F/-IBXF/-IBQF)
LEB2	12	InfiniBand Activity LED (X8DTT-F/-IBXF/-IBQF)

Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

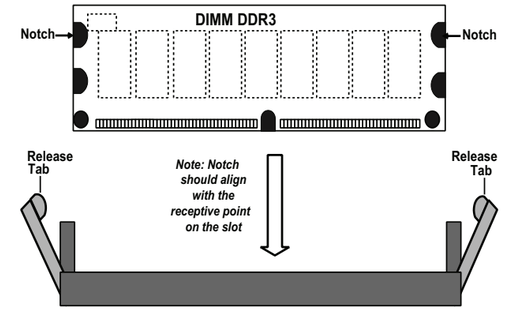
Memory Support

This motherboard supports up to 192 GB of Registered ECC or 48 GB of Unbuffered ECC/Non-ECC DDR3 1333/1066/800 MHz Memory in 12 DIMMs.

Note: Check the Supermicro web site for recommended memory modules.

DIMM Memory Installation

Insert the desired number of DIMMs into the memory slots. starting with P1-DIMM1A.



Memory Population for Optimal Performance -For a motherboard with One CPU (CPU1) installed

O	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

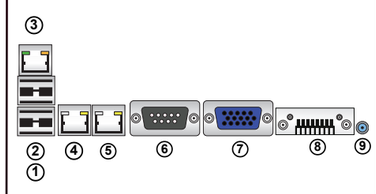
	Branch 0		Branch 1		Branch 2	
3 DIMMs	P2 DIMM1A		P2 DIMM2A		P2 DIMM3A	
6 DIMMs	P2 DIMM1A	P2 DIMM1B	P2 DIMM2A	P2 DIMM2B	P2 DIMM3A	P2 DIMM3B

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

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

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

Back Panel I/O Connectors



1. USB 0
2. USB 1
3. IPMI_Dedicated LAN (X8DTT-F/-IBXF/-IBQF models)
4. LAN 1
5. LAN 2
6. COM Port 1 (Black)
7. VGA (Blue)
8. InfiniBand (X8DTT-IBX/-IBXF/-IBQ/-IBQF models)
9. UID Switch

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