Motherboard Layout and Features

SUPER X8DTT-H+

19 20

Screw#1

CPU Installation

Socket Key

CPU Keys

/ Note: Item numbers are listed in counterclockwise order.

OH/Fan Fail/PWR Fail/UID LED

PWR Fail LED <

Front Panel Control (JF1)

NIC2 (Activity) LED

Blue_LED_Cathode

3.3V

- 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

Jumpers, Connectors and LED Indicators

Jumpers										
Item #	Description	Default								
29	CMOS Clear	Short: Clear CMOS Open: Normal Operation (Default)								
27	VGA Enabled	Pins 1-2 (Enabled)								
26, 23	LAN1/2 Enable	Pins 1-2 (Enabled)								
14	Watch Dog	Pins 1-2 (Reset)								
	29 27 26, 23	29 CMOS Clear 27 VGA Enabled 26, 23 LAN1/2 Enable								

Connectors								
Connectors	Item#	Description						
COM1	4	COM1 Serial Port						
FAN 1	21	Cooling Fan Header						
InfiniBand	8	InfiniBand Connector (X8DTT-HIBXF+/HIBQF+)						
IPMB	28	IPMB Header (X8DTT-HF+/-HEF+/-HIBXF+/-HIBQF+)						
J3	17	(SXB1) PCI-E 2.0 x8 Slot for use with an SMC Proprietary Daughter (Add-On) Card (Available on the X8DTT-HEF+/-HIBXF+/-HIBQF+ only)						
JF2	18	SMC Proprietary Slot for Power, FP Control & I-SATA Connections						
JNMI1	15	NMI (Non-Maskable Interrupt) Header						
JRST1	11	Alarm Reset Header						
JSPK1	6	Internal Speaker/Buzzer Header						
JTPM1	22	TPM/Port 80 Header						
LAN1/2	3, 2	Gigabit Ethernet (RJ45) Ports						
(IPMI Dedicated) LAN	24	LAN (RJ45) Port for IPMI 2.0 (X8DTT-HF+/-HEF+/-HIBXF+/-HIBQF+)						
Slot1	16	PCI-E 2.0 x16 slot						
SW1	13	Unit Identifier Switch						
USB 0/1	1	Universal Serial Bus (USB) Ports 0/1						
USB 2/3 (JUSB2)	25	Front Accessible USB connections						
VGA	7	Video Port						

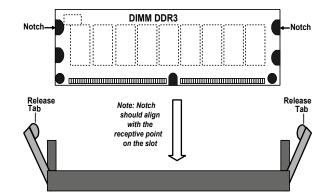
LED Indicators								
LED	Item#	Description						
LE1	19	Onboard Standby PWR warning LED Indicator						
LE2	5	BMC Heartbeat Indicator						
LE3	20	HDD/SATA LED Indicator						
LE4	12	(Rear) Unit Identifier (UID) LED Indicator						
LEB1	10	InfiniBand Link LED (X8DTT-HIBXF+/-HIBQF+)						
LEB2	9	InfiniBand Activity LED (X8DTT-HIBXF+/-HIBQF+)						

Memory Support

The X8DTT-H+ Series motherboard supports up to 192 GB of Registered ECC or 48 GB of Unbuffered ECC/Non-ECC DDR3 1333 MHz/1066 MHz/800 MHz in 12 DIMMs.

DIMM Memory Installation

Insert the desired number of DIMMs into the memory slots, starting with P1-DIMM 1A.

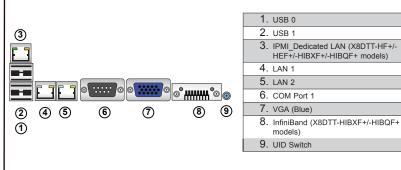


Memory Population for Optimal Performance -For a motherboard with One CPU (CPU1) installed									
0	Branch 0		Bra	nch 1	Branch 2				
3 DIMMs	P1 DIMM1A		P1 DIMM2A		P1 DIMM3A				
6 DIMMs	P1 DIMM1A	P1 DIMM1B	P1 DIMM2A	P1 DIMM2B	P1 DIMM3A	P1 DIMM3B			

Memory Population for Optimal Performance -For a motherboard with One CPU (CPU2) installed									
	Branch 0		Bra	nch 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					
Brand	ch 0	Bran	nch 1	Bran	ich 3	Branch 0		Branch 1		Branch 3		
1A		2A		3A		1A		2A		3A		
1A	1B	2A	2B	3A	3B	1A	1B	2A	2B	3A	3B	
	1A	Branch 0	-For a mo	-For a motherb CPU1 Branch 0 Branch 1 1A 2A	-For a motherboard v CPU1 Branch 0 Branch 1 Bran 1A 2A 3A	-For a motherboard with Tv CPU1 Branch 0	-For a motherboard with Two CP CPU1 Branch 0 Branch 1 Branch 3 Bran 1A 2A 3A 1A	-For a motherboard with Two CPUs ins CPU1 Branch 0 Branch 1 Branch 3 Branch 0 1A 2A 3A 1A	-For a motherboard with Two CPUs installed CPU1 CP Branch 0 Branch 1 Branch 3 Branch 0 Bran 1A 2A 3A 1A 2A	-For a motherboard with Two CPUs installed CPU1 CPU2 Branch 0 Branch 1 Branch 3 Branch 0 Branch 1 1A 2A 3A 1A 2A	-For a motherboard with Two CPUs installed CPU1 CPU2 Branch 0 Branch 1 Branch 3 Branch 0 Branch 1 Branch 1 1A 2A 3A 1A 2A 3A	

Back Panel I/O Connectors



/ 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.

Mounting Hole

= mounting hole

Heatsink Installation

Screw#4

Screw#2

Screw#3

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