CPU Installation

Socket Key

CPU Keys

Motherboard Layout and Features

SUPER®X8DTG-DF

= mounting hole

Front Panel Control (JF1)

0 0 3.3V

NIC1 (Activity) LED

NIC2 (Activity) LED

Blue_LED_Cathode (UID)/5V SB

LE4

Power LED<

HDD LED≺

NIC1(Link) LED

NIC2 (Link) LED <

OH/Fan Fail/PWR

PWR Fail LED

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

Jumpers, Connectors and LED Indicators

Jumpers								
Jumper	Description	Default Setting						
JBT1	CMOS Clear	Pins 1-2 (Reset)						
JPG1	VGA Enable	Pins 1-2 (Enabled)						
JPL1	LAN1/2 Enable	Pins 1-2 (Enabled)						
J_UID_OW	Red LED OW (Pins 7-8 of JF1)	Off (Overwrites)						
JWD1	Watch Dog	Pins 1-2 (Reset)						

Commontons										
	Connectors									
Connector	Description									
COM1	COM1 Serial Port									
FAN 1-8	System/CPU Fan Headers									
IPMB	IPMB (SMB I ² C) Header (for IPMI)									
JF1	Front Panel Connector									
JL1	Chassis Intrusion									
JLPC80	JLPC80 Connector									
JNMI1	NMI (Non-Maskable Interrupt) Header									
JPSK1	Internal Speaker/Buzzer Header									
JPW1	12V 20-pin Power Connector									
JPW2/JPW3	12V 8-pin PCI-Exp. Power Connectors									
LAN1/2	Gigabit Ethernet (RJ45) Ports									
(IPMI dedicated) LAN	LAN (RJ45) Port for IPMI 2.0									
PCI-E Slot	PCI-Express 2.0 x4 in x 16 slot (JPCIE3)									
PWR I ² C (JPI ² C)	Power SMB (System Management Bus) I ² C Header									
SATA1 ~ SATA6	(Intel South Bridge) SATA Ports									
SBX 1A/2A Slots	PCI-E slots GPU for (Graphics Processing Unit) support (J11/J12)									
SBX 1B/2B Slots	PCI-E slots for GPU support (JPCIE1/JPCIE2)									
SW1	Unit Identifier Switch									
T-SGPIO-0/T-SGPIO-1	Serial General Purpose Input/Output Headers									
USB0/1, USB 2/3	Universal Serial Bus (USB) Ports 0/1, 2/3									
VGA	Video Port									

LED Description LE1 Onboard Standby PWR warning LED Indicator LE2 BMC LED Indicator

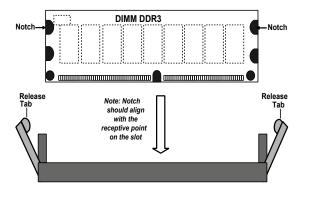
Memory Support

The X8DTG-DF supports up to 96 GB of Registered ECC or up to 24 GB of Unbuffered ECC/Non-ECC DDR3 1333/1066/800 MHz Memory in 12 DIMMs.

/ Note: With Unbuffered ECC/Non-ECC Memory, a maximum of 2 GB of memory is supported per DIMM slot.

DIMM Memory Installation

Insert the desired number of DIMMs into the memory slots, starting with P1

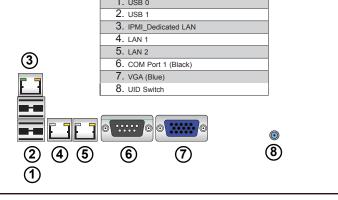


	Memory Population for Optimal Performance -For a motherboard with One CPU (CPU1) installed									
	0	Branch 0		Bra	nch 1	Branch 2				
3 DIM	Ms	P1 DIMM1A		P1 DIMM2A		P1 DIMM3A				
6 DIM	Ms	P1 DIMM1A	P1 DIMM1B	P1 DIMM2A	P1 DIMM2B	P1 DIMM3A	P1 DIMM3B			

Memory Population for Optimal Performance -For a motherboard with One CPU (CPU2) installed									
	Bran	ch 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	A P2 DIMM3B			

Memory Population for Optimal Performance -For a motherboard with Two CPUs installed												
	CPU1						CPU2					
	Bran	ch 0	Braı	nch 1	Brar	ich 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

Back Panel I/O Connectors



Mounting Hole

/ 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.

Screw#1

Heatsink Installation

Screw#4

Screw#2

Screw#3

(Rear) Unit Identifier (UID) LED Indicator