SUPERMICRO®

X9DRD-LF

Quick Reference Guide

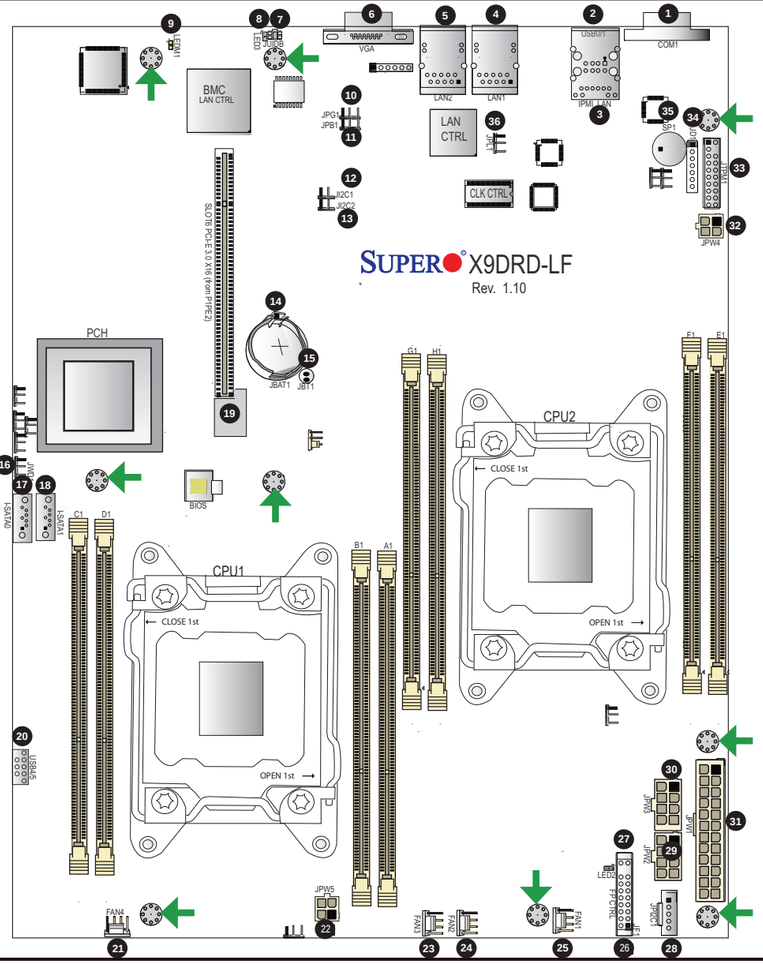
Contact Information

- 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 (For Single-Pack Only)

- One (1) Supermicro Motherboard
- Two (2) SATA Cables (CBL-0044Lx2)
- One (1) I/O Shield (MCP-260-00042-0N)

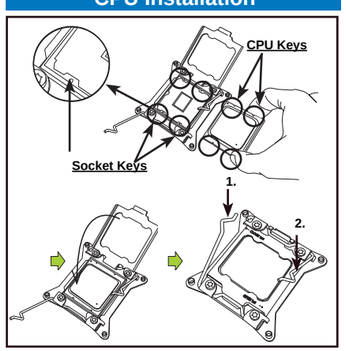
Motherboard Layout and Features



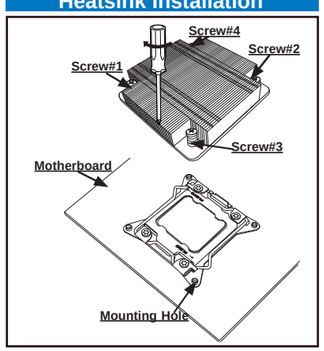
= mounting hole

Note: Item numbers are listed in counterclockwise order.

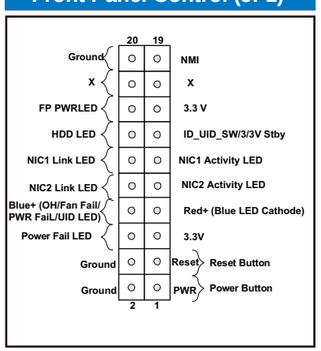
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



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.

Jumpers/Connectors/LED Indicators

Jumpers

Jumper	Item#	Description	Default Setting
JBT1	15	Clear CMOS	See Chapter 3
JI²C1/JI²C2	12, 13	SMB to PCI-E Slots	Off (Disabled)
JPB1	11	BMC Enabled	Pins 1-2 (Enabled)
JPG1	10	VGA Enabled	Pins 1-2 (Enabled)
JPL1	36	GLAN1/GLAN2 Enable	Pins 1-2 (Enabled)
JWD1	16	Watch Dog Timer Enable	Pins 1-2 (Reset)

Connectors

X9DRD-LF Connectors

Connectors	Item#	Description
COM1	1	Backplane COM Port1 Header
FAN1-4	25, 24, 23, 21	CPU/System Fan Headers
JBAT1	14	Onboard Battery
JD1	34	Speaker/Power LED Indicator
JF1	26	Front Panel Control Header
JPI²C1	28	Power Supply SMBbus I²C Header
JPW1	31	24-Pin ATX Main Power Connector
JPW2/3	29, 30	12V 8-Pin Power Connectors
JPW4/5	32, 22	12V 4-Pin Power Connectors
JTPM1	33	TPM (Trusted Platform Module)/Port 80
JUIDB	7	UID (Unit Identification) Switch
LAN1/LAN2	4, 5	G-bit Ethernet Ports 1/2
(IPMI) LAN	3	IPMI_Dedicated LAN
PCI-E x16 Slot	19	PCI-Express 3.0 x16 Slot (from P1PE2) (See the note below.)
SP1	35	Onboard Buzzer (Internal Speaker)
(I-)SATA0/1	17, 18	Onboard SATA 3.0 Ports 0/1
(BP) USB 0/1	2	Back Panel USB 0/1
(FP) USB 4/5	20	Front Accessible USB Header (USB 4/5)
VGA	6	Backpanel VGA Port

LED Indicators

LED	Item#	Description	State	Status
LED2	27	Standby PWR LED	Green: On	Standby PWR On
LED3	8	Rear UID LED	Blue: On	Unit Identified
LEDM1	9	BMC Heartbeat LED	Green: Blinking	BMC Normal

Notes:

1. *Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.*
2. *PCI-E slots support Low-Profile MD2 form factor for devices/add-on cards that are shorter than 167.64mm or 6.59" (in) in length only.*

Memory Support

This motherboard supports up to 256 GB of 240-pin Registered (RDIMM)/ Load Reduced (LRDIMM) ECC or up to 64 GB of Unbuffered (UDIMM) ECC/ Non-ECC DDR3 800/1066/1333/1600 MHz 4-channel (per CPU) memory in 8 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-DIMMA1. 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.

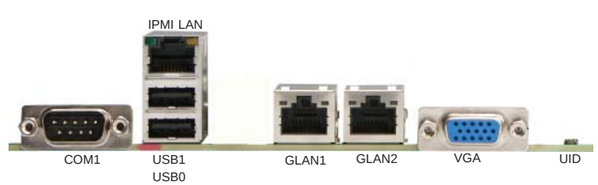
Processors and their Corresponding Memory Modules

CPU#	Corresponding DIMM Modules			
CPU1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1
CPU2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1

Processor and Memory Module Population

Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (*For memory to work proper, please install DIMMs in pairs)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
2 CPUs & 2 DIMMs	CPU1 + CPU2 P1-DIMMA1, P2-DIMME1
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1

Back Panel IO Connectors



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

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