SUPERMICRO®

X9DRD-iF
QUICK REFERENCE GUIDE REV. 1.0A

PACKAGE CONTENTS (For Single-Pack Only)
- One (1) Supermicro Motherboard
- Four (4) SATA Cables
- One (1) I/O Shield

Motherboard Layout and Features

Super® X9DRD-iF
Rev. 1.10

→ = mounting hole

Note: Item numbers are listed in counterclockwise order.
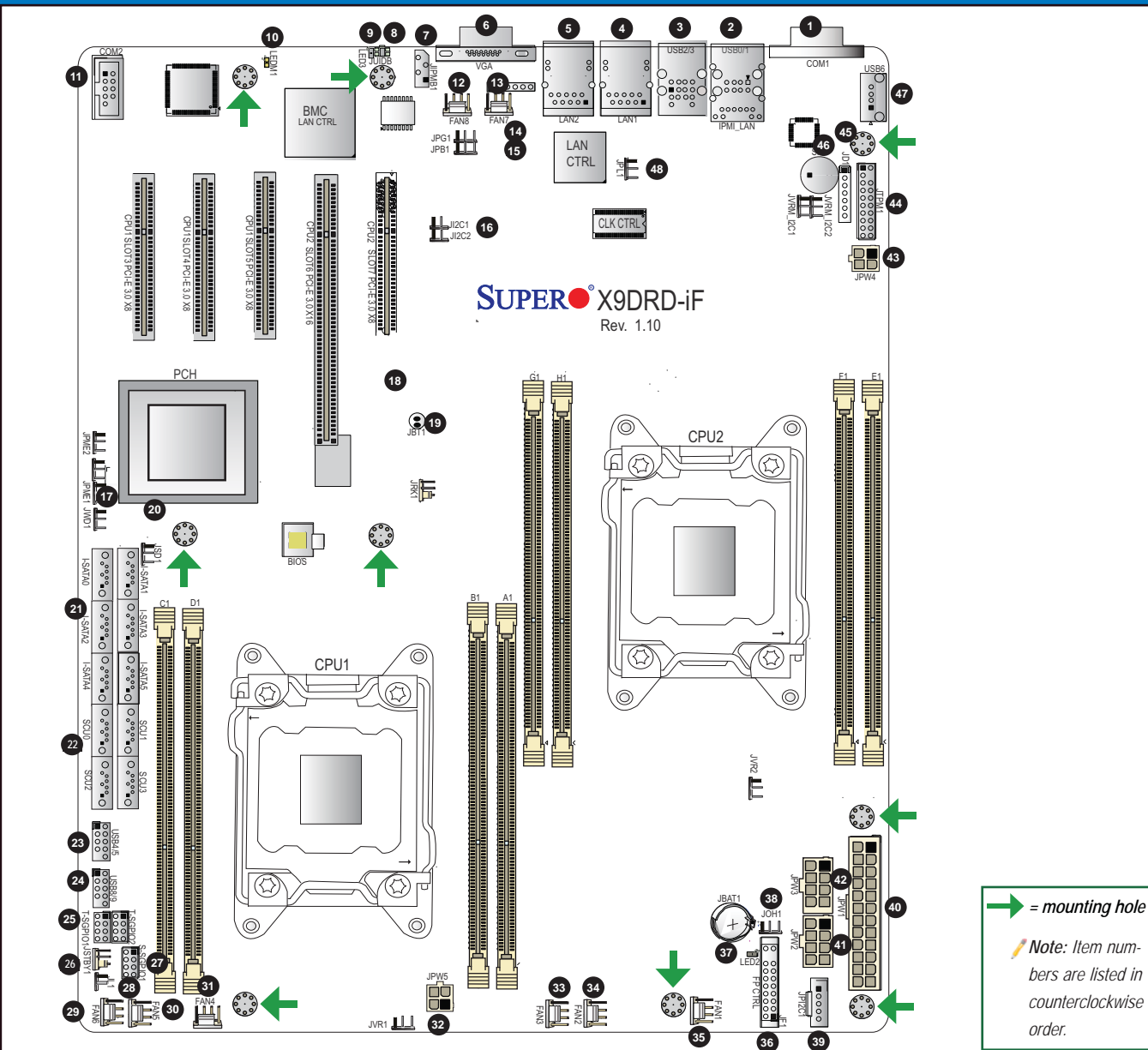
Jumpers/Connectors/LED Indicators

Jumpers

Jumper	Item#	Description	Default Setting
JBT1	19	Clear CMOS	See Chpt. 2 in User Manual
JI²C1/JI²C2	16	SMB to PCI-E Slots	Off (Disabled)
JPB1	15	BMC Enabled	Pins 1-2 (Enabled)
JPG1	14	VGA Enabled	Pins 1-2 (Enabled)
JPL1	48	GLAN1/GLAN2 Enable	Pins 1-2 (Enabled)
JWD1	17	Watch Dog Timer Enable	Pins 1-2 (Reset)

Connectors

Connectors	Item#	Description
COM1/COM2	1, 11	Backplane COM Port1/Front Accessible COM2 Header
FAN1~8	35, 34, 33, 31, 30, 29, 13, 12	CPU/System Fan Headers
JBAT1	18	Onboard Battery (See Chpt. 3 for Used Battery Disposal)
JD1	45	Speaker/Power LED Indicator
JF1	36	Front Panel Control Header
JIPMB1	7	4-pin External BMC I²C Header (for an IPMI Card)
JL1	28	Chassis Intrusion
JOH1	38	Overheat LED Indicator
JPI²C1	39	Power Supply SMBbus I²C Header
JPW1	40	24-Pin ATX Main Power Connector
JPW2/3	41, 42	12V 8-Pin Power Connectors
JPW4/5	43, 32	12V 4-Pin Power Connectors
JSD1	20	SATA DOM (Device on Module) Power Connector
JSTBY1	26	+5V Standby Power Header
JTPM1	44	TPM (Trusted Platform Module)/Port 80
LAN1/LAN2	4, 5	Gigabit Ethernet Ports 1/2
(IPMI) LAN	2	IPMI_Dedicated LAN
(I)SATA0~5, SCU0~3	21, 22	Intel Serial_Link Connections (AHCI-SATA Connections 0~5, PCH-SATA Connections 0~3)
SP1	46	Onboard Buzzer (Internal Speaker)
(S-)SGPIO 1	27	Serial_Link General Purpose I/O Header for SCU Connections
(T-)SGPIO 1/2	25	Serial_Link General Purpose I/O Headers for PCH-SATA
UID	8	UID (Unit Identification) Switch
USB 0/1, 2/3	2, 3	Back Panel USB 0/1, 2/3
USB 4/5, 8/9	23, 24	Front Panel Accessible USB Connections (4/5, 8/9)
USB 6	47	Type A USB Embedded Drive Connector
VGA	6	Backpanel VGA Port

LED Indicators

LED	Item	Description	State	Status
LED2	37	Standby PWR LED	Green: On	Standby PWR On
LED3	9	Rear UID LED	Blue: On	Unit Identified
LEDM1	10	BMC Heartbeat LED	Green: Blinking	BMC Normal

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.
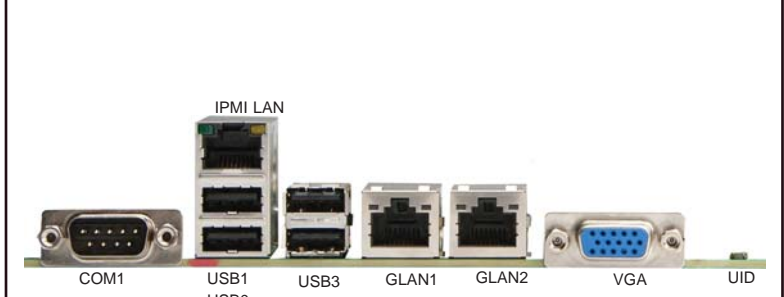
DIMM Installation

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.
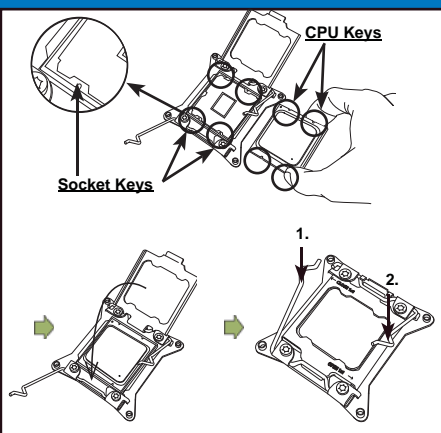
Processors and their Corresponding Memory Modules

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

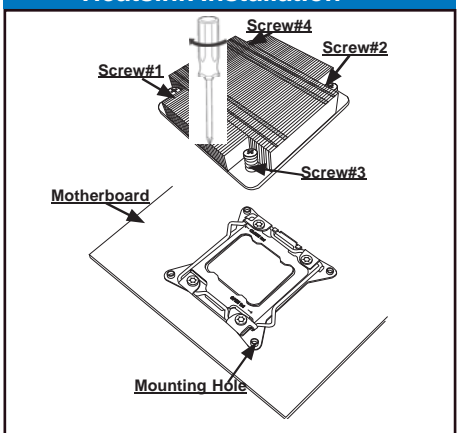| Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (*For memory to work proper, please install DIMMs in pairs)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
2 CPUs & 2 DIMMs	CPU1 + CPU2 P1-DIMMA1, P2-DIMME1
2 CPUs & 4 DIMMs	CPU1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

CPU Installation
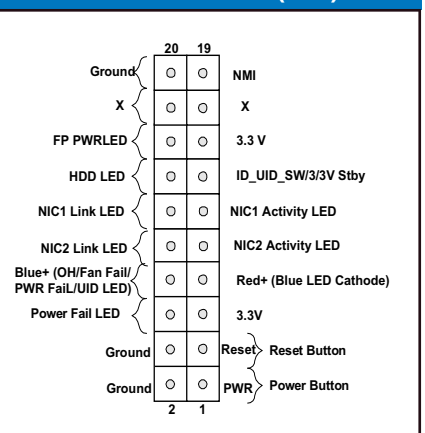

CPU Keys
Socket Keys
1.
2.

Heatsink Installation

Screw#4
Screw#2
Screw#1
Motherboard
Screw#3
Mounting Hole

Front Panel Control (JF1)

	20	19	
Ground	○	○	NMI
X	○	○	X
FP PWRLED	○	○	3.3 V
HDD LED	○	○	ID_UID_SW/3/3V Stby
NIC1 Link LED	○	○	NIC1 Activity LED
NIC2 Link LED	○	○	NIC2 Activity LED
Blue+ (OH/Fan Fail/ PWR Fail/UID LED)	○	○	Red+ (Blue LED Cathode)
Power Fail LED	○	○	3.3V
Ground	○	○	Reset Button
Ground	○	○	Power Button
	2	1	

Reset
PWR

Back Panel IO Connectors

IPMI LAN
COM1
USB1 USB0
USB3 USB2
GLAN1
GLAN2
VGA
UID

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 for 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.