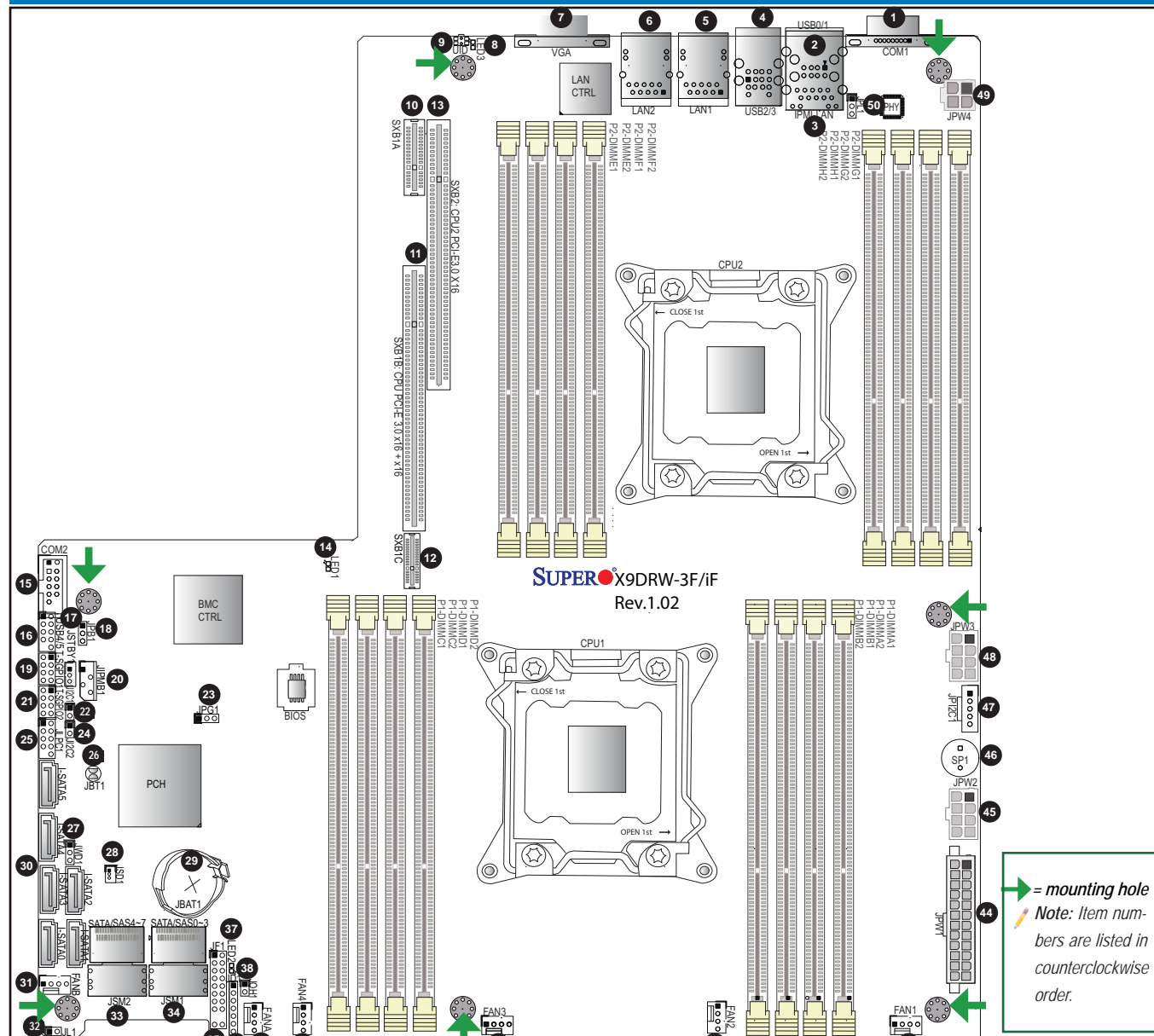


- One (1) Supermicro Motherboard
- Two (2) SATA Cables
- Two (2) I-Pass to 4 SATA (50-cm) Cables (X9DRW-3F)
- One (1) I-Pass to 4 SATA (50-cm) Cable (X9DRW-iF)

**Motherboard Layout and Features**



→ = mounting hole  
 ⚡ Note: Item numbers are listed in counterclockwise order.

**Jumpers/Connectors/LED Indicators**

Jumpers			
Jumper	Item#	Description	Default Setting
JBT1	26	Clear CMOS	See Chapter 3
J <sup>2</sup> C1/J <sup>2</sup> C2	22, 24	SMB to PCI-E Slots	Open (Normal)
JPB1	18	BMC Enable	Pins 1-2 (Enabled)
JPG1	23	VGA Enable	Pins 1-2 (Enabled)
JPL1	50	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
JWD1	27	Watch Dog	Pins 1-2 (Reset)

Connectors		
Connectors	Item#	Description
COM1/COM2	1, 15	Rear COM Port1/Front Access. COM2 Header
FAN1~4, FANA/B	43, 42, 41, 40, 39, 31	CPU/System Fan Headers
I-SATA 0~5	30	Intel SATA Connectors 0~5 (from PCH)
JBAT1	29	Onboard Battery
JD1	36	Speaker/Power LED Connector
JF1	35	Front Panel Control Header
JIPMB1	20	4-pin External BMC I <sup>2</sup> C Header (for IPMI Card)
JL1	32	Chassis Intrusion
JLPC1	25	Port80 Header
JOH1	38	Overheat/Fan Fail LED
JPI <sup>2</sup> C1	47	Power Supply SMBus I <sup>2</sup> C Header
JPW1	44	ATX 24-Pin Power Connector
JPW2/3	45, 48	12V 8-Pin Power Connectors
JPW4	49	12V 4-Pin Power Connector
JSD1	28	SATA DOM (Device_On_Module) Power Connector
JSTBY1	17	Standby Power Connector
LAN1/2	5, 6	G-bit Ethernet Ports 1/2
(IPMI) LAN	3	IPMI_Dedicated LAN
SATA 0~3	34, 33	SATA 2.0 0~3 (from SCU) (for X9DRW-iF), SATA/SAS 0~3, 4~7 (from SCU) (for X9DRW-3F)
SP1	46	Onboard Buzzer (Internal Speaker)
SXB1A (Note 1)	10	SMC-Proprietary SPEC Slot
SXB1B (Note 1)	11	SMC-Proprietary PCI-E 3.0 x16 + x16 Add-on Card Slot (Left)
SXB1C (Note 1)	12	SMC-Proprietary SPEC Slot
SXB2 (Note 2)	13	SMC-Proprietary PCI-E 3.0 x16 Add-on Card Slot
T-SGPI0 1/2	19, 21	Serial-Link General_Purpose IO Headers 1/2
USB 0/1, 2/3	2, 4	Back Panel USB 0/1, 2/3 Ports
USB 4/5	16	Front Panel Accessible USB 4/5 Connections
UID Switch	9	UID (Unit Identifier) Switch

LED Indicators				
LED	Item#	Description	State	Status
LED1	14	BMC	Green: Blinking	Normal
LED2	37	Power LED	Green: On	SB Power On
LED3	8	UID LED	Blue: On	Unit Identified

**Note 1:** Use an SMC-proprietary riser card (eg. RSC-R1UW-2E16) in the slots for these slots to work properly.  
**Note 2:** Use an SMC-proprietary riser card RSC-R2UW-2E8R or RSC-R1UW-E8R in the slot.  
**Note 3:** Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

**Memory Support**

This motherboard supports up to 512 GB of 240-pin Registered (RDIMM)/Load Reduced (LRDIMM) ECC or 128 GB of Unbuffered (UDIMM) ECC/Non-ECC DDR3 800/1066/1333/1600 MHz 4-channel (per CPU) memory in 16 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>.

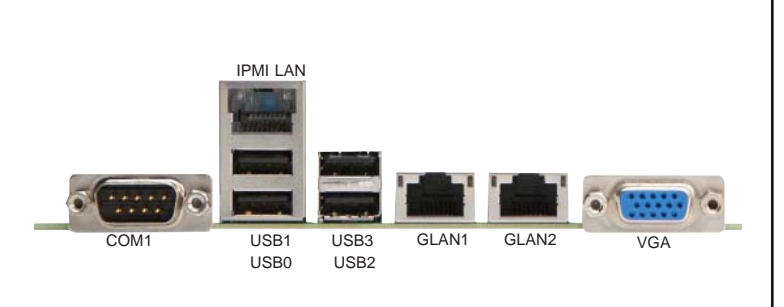
**DIMM Installation**

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							
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1	P1-DIMMA2	P1-DIMMB2	P1-DIMMC2	P1-DIMMD2
CPU 2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2	P2-DIMMH2

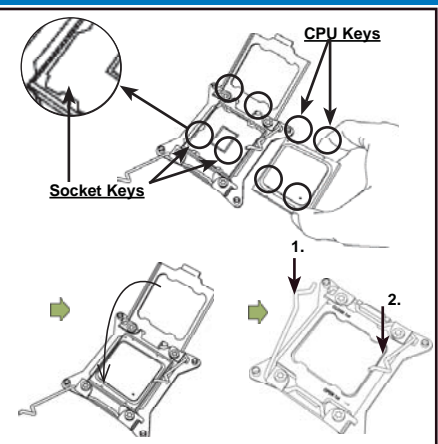
Processor and Memory Module Population for Optimal Performance	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow the instructions below.)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
1 CPU & 5-8 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1 + Any memory pairs in P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2 slots
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/P1-DIMMD1, P2-DIMME1/P2-DIMMF1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1
2 CPUs & 10-16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 + Any memory pairs in P1, P2 DIMM slots
2 CPUs & 16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1, P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2, P2-DIMME2/P2-DIMMF2/P2-DIMMG2/P2-DIMMH2

**Back Panel IO Connectors**

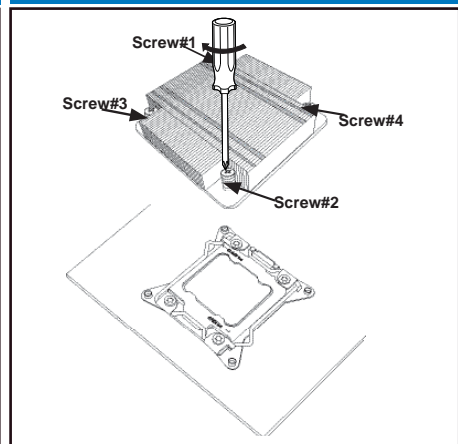


**Note:** Refer to Chapter 2 of the user's manual for detailed information on memory support and CPU/motherboard installation instructions.

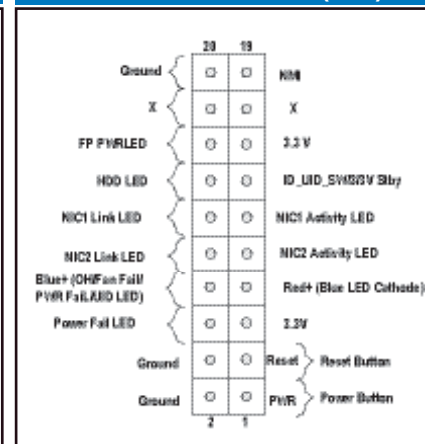
**CPU Installation**



**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.