

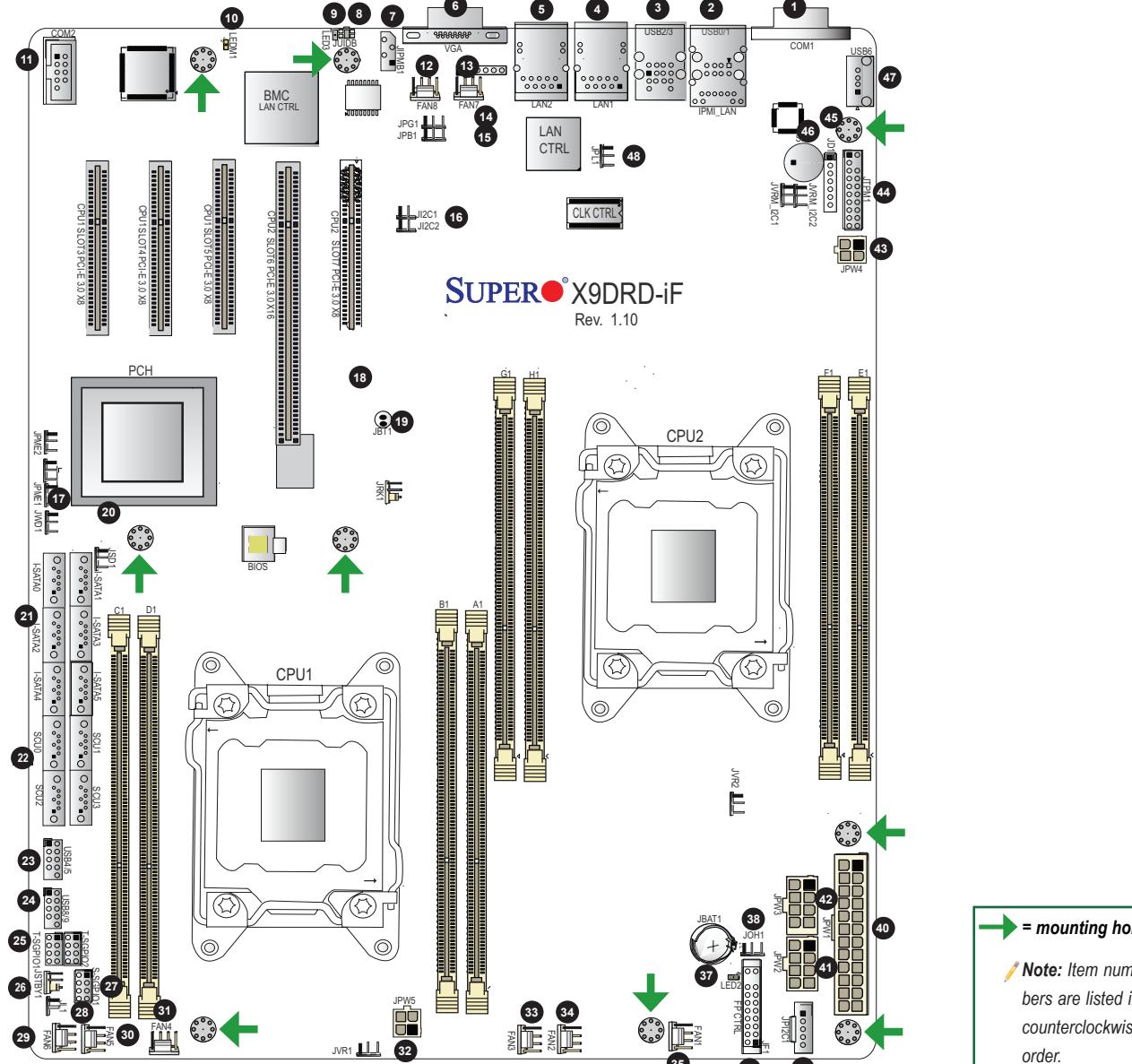
CONTACT INFORMATION

- www.supermicro.com (Email: support@supermicro.com)
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: [ftp://ftp.supermicro.com](http://ftp.supermicro.com)
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

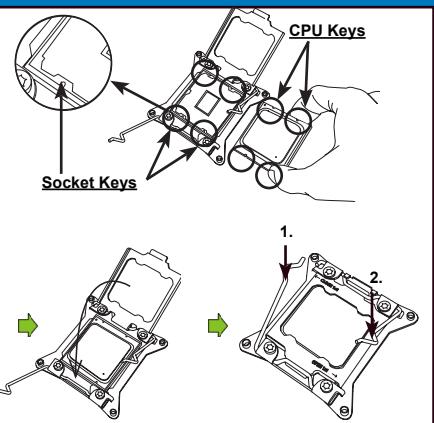
PACKAGE CONTENTS (For Single-Pack Only)

- One (1) Supermicro Motherboard
- Four (4) SATA Cables
- One (1) I/O Shield

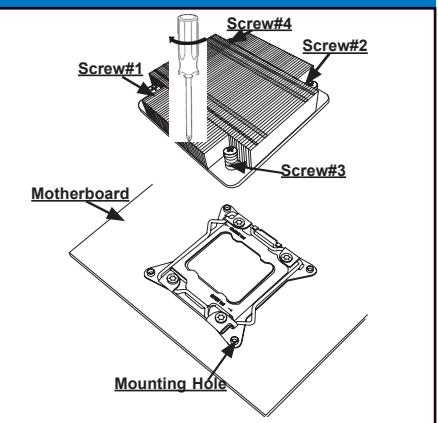
Motherboard Layout and Features



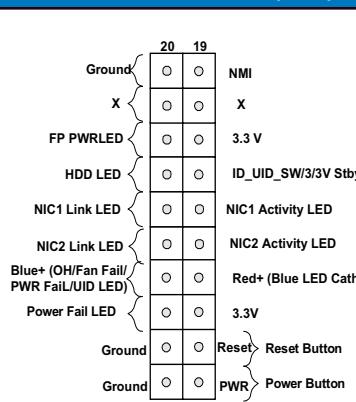
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Jumpers/Connectors/LED Indicators

Jumpers				
Jumper	Item#	Description	Default Setting	
JBT1	19	Clear CMOS	See Chpt. 2 in User Manual	
JI ² C1/JI ² C2	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 I ² C Header (for an IPMI Card)		
JL1	28	Chassis Intrusion		
JOH1	38	Overheat LED Indicator		
JPI ² C1	39	Power Supply SMBus I ² C 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		
(1) SATA 0 ~ 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

Back Panel IO Connectors

