

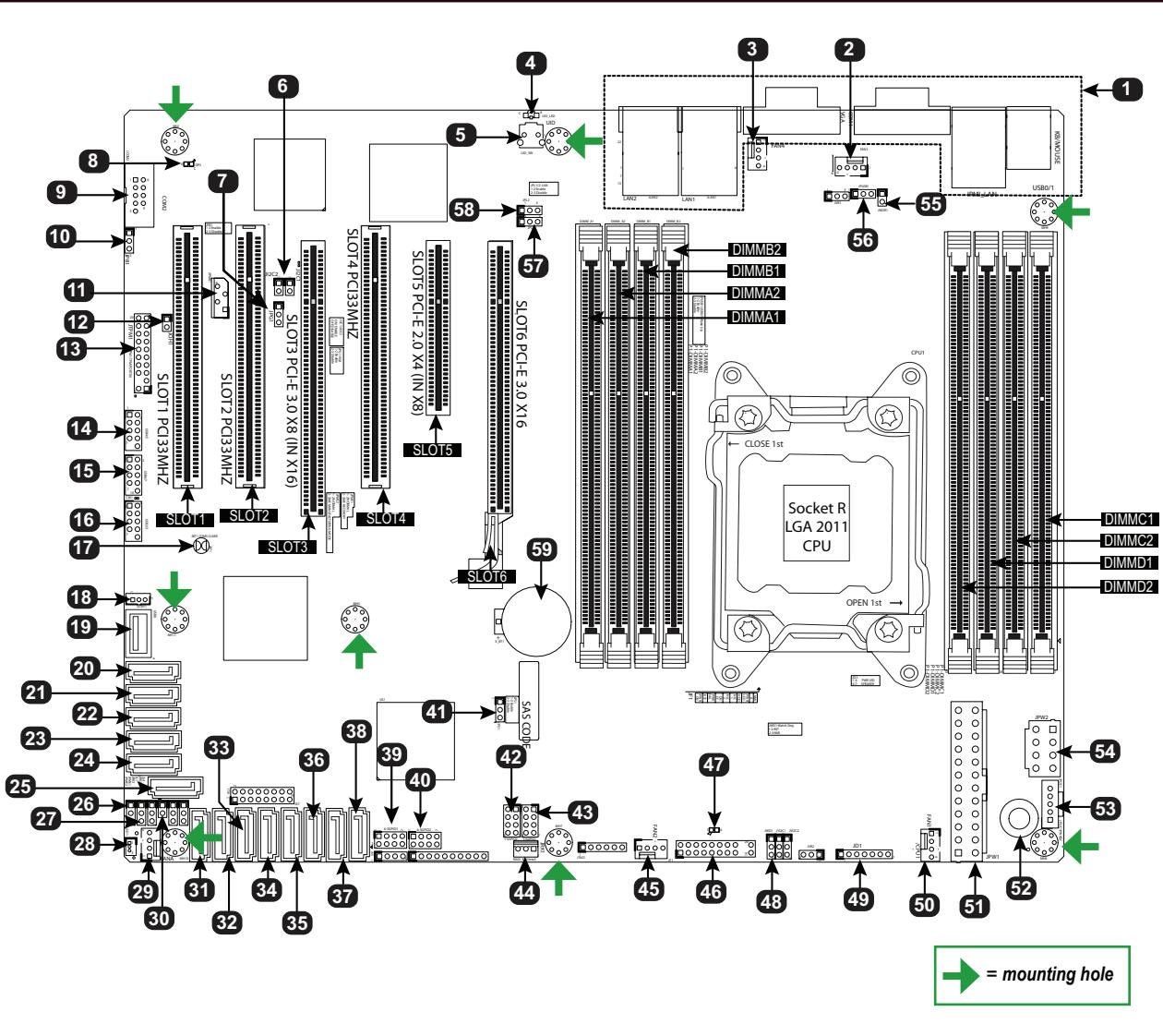
**CONTACT INFORMATION**

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

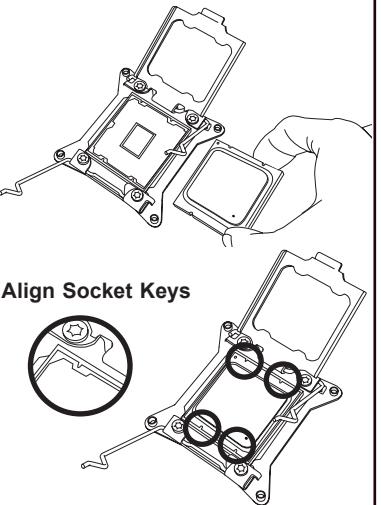
**PACKAGE CONTENTS** (Applies to individual-pack only)

- One (1) Supermicro Motherboard
- Eight (8) SATA Cables
- One (1) I/O Shield
- One (1) Quick Reference Guide

**Motherboard Layout and Features**

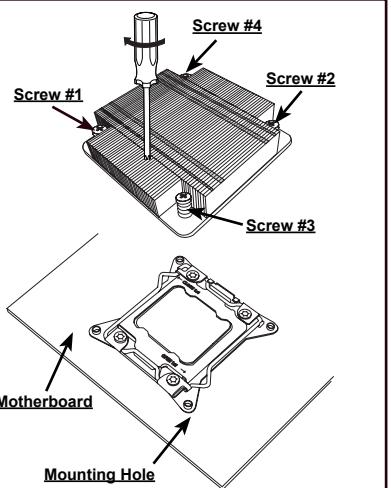


**CPU Installation**



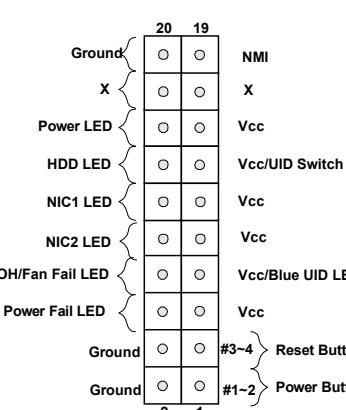
Align Socket Keys

**Heatsink Installation**



Mounting Hole

**Front Panel Control (JF1)**



**Jumpers, Connectors and LED Indicators**

Jumpers			
6	J12C1,J12C2	SMB to PCI-E Slots	On (Enabled)
7	JPG1	On Board VGA Enable/Disable	Pins 1-2 (Enabled)
10	JPB1	BMC Enable/Disable	Pins 1-2 (Enabled)
17	JBT1	Reset CMOS	Short contact pads to reset CMOS
26	JPME2	Intel ME Mode Select	Pins 1-2 (Normal)
27	JPME1	ME Recovery	Pins 1-2 (Normal)
41	JPS1	SAS Controller Enable/Disable	Pins 1-2 (Enabled)
48	JWD1	Watch Dog Timer Reset	Pins 1-2 (Reset)
56	JPUSB1	USB Enable/Disable	Pins 1-2 (Enabled)
57,58	JPL1/JPL2	LAN1/LAN2 Enable/Disable	Pins 1-2 (Enabled)

**Connectors**

1	I/O Backpanel	See "Back Panel I/O Connectors", below right
2,3,29,45,50	FAN 3,4,A,2,1	System Fan Headers (FAN A: I/O, FAN 1: CPU)
5	UID SW	Unit ID (UID) Switch
9	COM2	COM2 Header
11	JIPMB1	System Management Bus Header for the IPMI Slot
12	JOH1	Overheat LED/Fan Fail Header
13	JTPM1	Trusted Platform Module (TPM) Header
14,15,16	USB 4/5,6/7,2/3	Internal USB Headers
18	JSTBY1	Legacy Wake-On-LAN Header
19	JUSB	Internal "Type A" USB Port
20~25	I-SATA0~5	Internal SATA Ports (SATA 0/1: SATA 3.0)
28	JSD1	Disk-On-Module (DOM) Power Header
30	JL1	Chassis Intrusion Header
31~38	LSAS 7~0	Internal SAS Ports via LSI 2308 chipset (6Gb/sec)
39,40	6-SGPIO1,6-SGPIO2	Serial Link General Purpose I/O Headers for SAS
42,43	T-SGPIO2,T-SGPIO1	Serial Link General Purpose I/O Headers for SATA
44	JRK1	RAIDkey Header
46	JF1	Header for Front Panel Controls/LEDs
49	JD1	Power LED/Speaker Header (Pins 4~7:Attach Ext Speaker)
51	JPW1	24-pin ATX Power Connector
52	SP1	Internal Buzzer / Speaker
53	JPI2C1	Power Supply SMBus I2C Header
54	JPW2	8-pin Secondary Power Connector
55	JWOR1	Wake-On-Ring Header
59	BATT	Internal Battery

**LED Indicators**

4	UID	Unit ID (UID) LED	Blue: Solid On	UID: On
8	DP3	IPMI Heartbeat	Green/Blinking	BMC/IPMI Normal
47	DP2	Power On LED	Green: Solid On	System is On

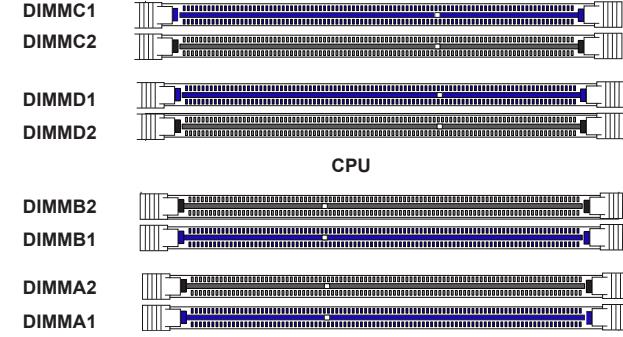
**Memory Support**

The X9SRH motherboard series supports up to 256GB of 1600/1066/1333 MHz ECC/Non-ECC DDR3 DIMMs in eight (8) memory slots (UDIMM/ RDIMM).

**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 Memory Installation**

Motherboard edge



**Memory Population Guidelines**

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, DIMMC1, DIMMD1 then DIMMA2, DIMMB2, DIMMC2, DIMMD2.

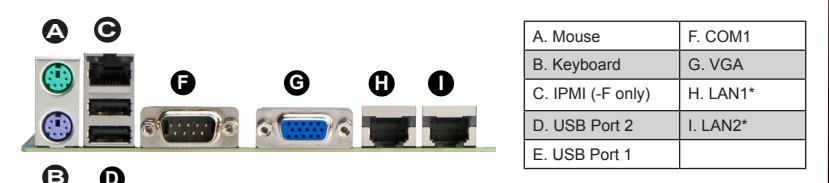
- Always use DDR3 DIMM modules of the same size, type and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules installed (1, 3, 5, or 7 modules). However, for best memory performance, install DIMM modules in pairs.

**Recommended Population (Balanced)**

DIMMA1	DIMMA2	DIMMB1	DIMMB2	DIMMC1	DIMMC2	DIMMD1	DIMMD2	Total System Memory
2GB		2GB						4GB
2GB		2GB		2GB		2GB		8GB
2GB	16GB							
4GB		4GB						8GB
4GB	16GB							
4GB	32GB							

**Note:** Up to 256GB of memory are supported. See chapter 2 of the User Manual for complete memory population information.

**Back Panel I/O Connectors**



**Note:** LAN1 and LAN2 on the X9SRH-7TF supports up to 10Gb/sec transfer rate.

**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.