SUPERMICRO®

X9SRi (-F)(-3F) / X9SRE (-F)(-3F)
QUICK REFERENCE GUIDE REV. 1.0A

Motherboard Layout and Features

Supported on models with "F" designation only

Available on the X9SRE series only.

= mounting hole

Supported on models with "3" designation only
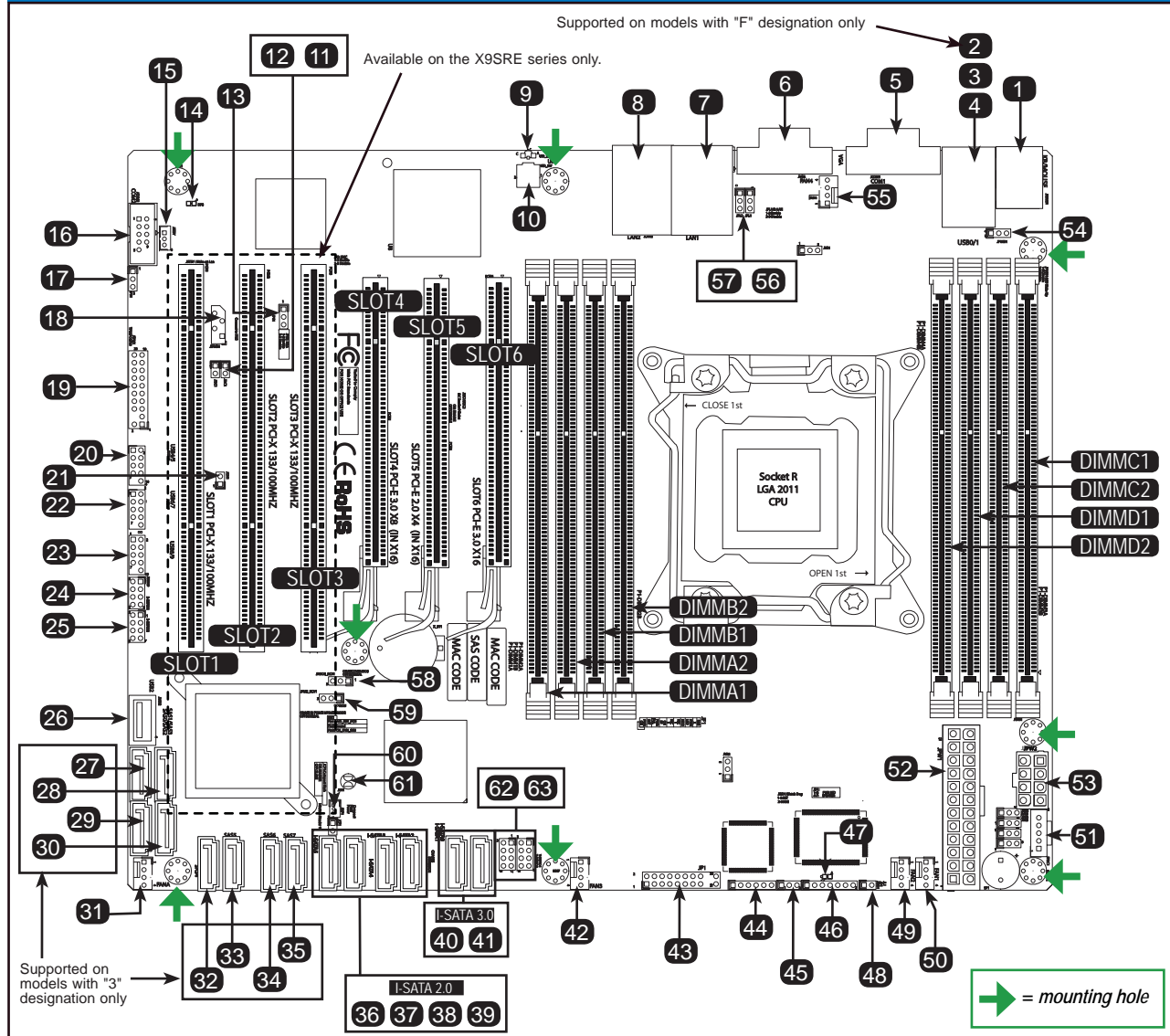
Jumpers, Connectors and LED Indicators

Jumpers

11,12	JI2C2,JI2C1	SMB to PCI-E Slots	On (Enabled)
13	JPG1	Onboard VGA Enable	Pins 1-2 (Enabled)
17	JPB1	BMC Enable (for "F" models only)	Pins 1-2 (Enabled)
45	JWD1	Watch Dog Reset	Pins 1-2 (Reset)
54	JPUSB1	USB Power Select	Pins 1-2 (Dual Power)
56, 57	JPL1,JPL2	LAN1,LAN2 Enable	Pins 1-2 (Enabled)
58	JPBIOS1	BIOS Recovery	Pins 1-2 (Normal)
59	JPME1	Intel ME Mode Select	Pins 1-2 (Normal)
61	JBT1	CMOS Clear	Short contact pads to reset CMOS

Connectors

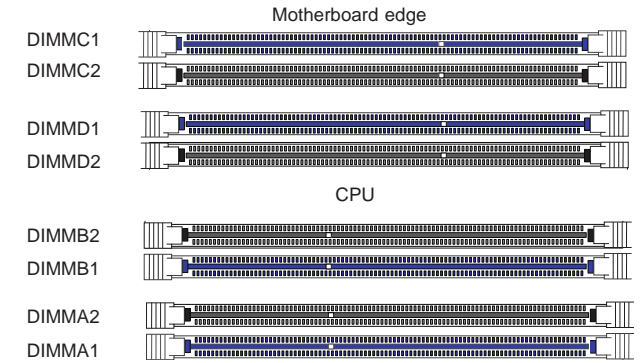|		
1	JKBMS1	Backpanel Keyboard and Mouse Port
2	JLAN	IPMI LAN Port ("F" models only)
3, 4	USB 0/1	USB 2.0 Port 1, USB 2.0 Port 2
5, 16	JCOM1, JCOM2	COM1 Backpanel Serial Port, COM2 Serial Port Header
6	JVGA	Backpanel VGA Port
7, 8	JLAN1, JLAN2	Backpanel Gbit LAN Ports 1, 2
10	UID_SW	Unit ID Switch
15	JSTBY1	Legacy Wake on LAN header
18	JIPMB1	System Management Bus Header for the IPMI Slot
19	JTPM1	Trusted Platform Module (TPM) Header
20,22,23	JUSB 4/5, 6/7, 8/9	Front Accessible USB Connections (via 3 Headers)
21	JOH1	Overheat LED/Fan Fail
24, 25	3-SGPIO1,3-SGPIO2	Serial General Purpose I/O Headers for SAS
26	JUSB2	Internal Type A USB port
27~30, 32~35	SCU0~7	Internal Serial-Attached SCSI/SAS ports ("3" models only)
31,42,49,50,55	FAN A, FAN 3,2,1,4	Internal Fan headers
36,37,38,39	I-SATA 5,4,3,2	SATA 2.0 ports (3Gb/s)
41, 40	I-SATA 0/1	SATA 3.0 ports (6Gb/s)
43	JF1	Front Panel Control Header
44	JTAG1	Factory Reserved
46	JD1	Power LED / Speaker Header (Pins 4~7: External Speaker)
48	JL1	Chassis Intrusion Header
51	JPI2C1	Power Supply SMBus I2C Header
52	JPW1	24-pin Main ATX Power Connector
53	JPW2	8-pin Secondary Power Connector
60	JSD1	Disk On Module (DOM) Power
62,63	T-SGPIO2,T-SGPIO1	Serial General Purpose I/O Headers for SATA

LED Indicators

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

Memory Support

The X9SRi/X9SRE 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

DIMMC1
DIMMC2

DIMMD1
DIMMD2

CPU

DIMMB2
DIMMB1

DIMMA2
DIMMA1

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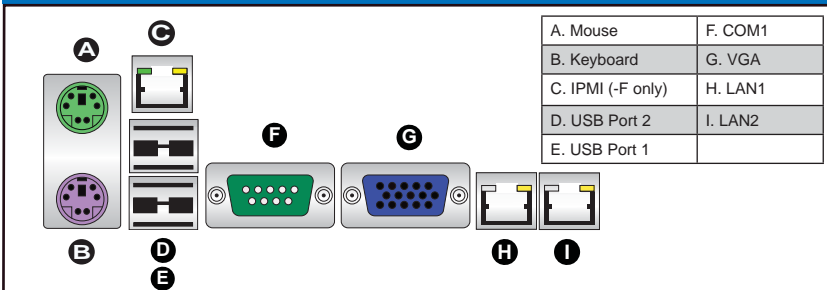
- Always use DDR3 DIMM modules of the same size, type and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules installed (1 ,3 ,5 ,or 7 modules). However, for best memory performance, install DIMM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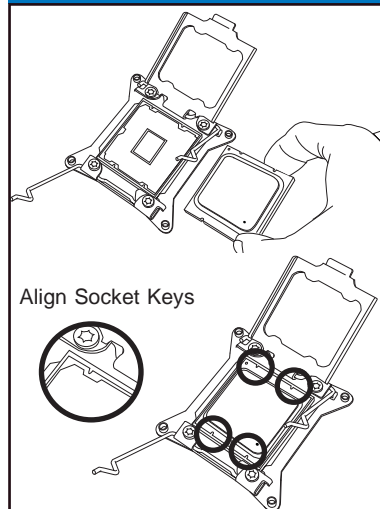
Recommended Population (Balanced)

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

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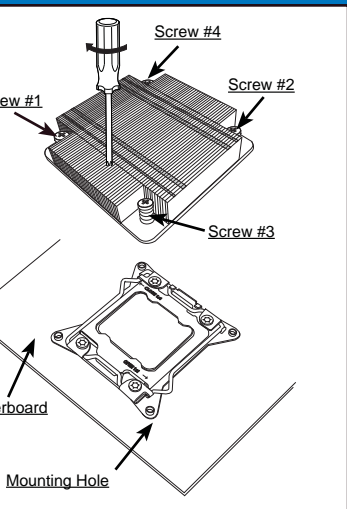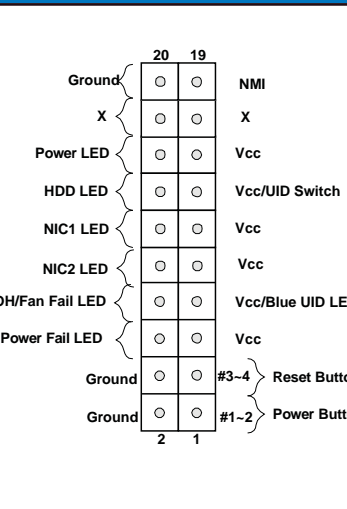
CPU Installation

Align Socket Keys

Heatsink Installation

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

Front Panel Control (JF1)

	20	19	
Ground	○	○	NMI
X	○	○	X
Power LED	○	○	Vcc
HDD LED	○	○	Vcc/UID Switch
NIC1 LED	○	○	Vcc
NIC2 LED	○	○	Vcc
OH/Fan Fail LED	○	○	Vcc/Blue UID LED
Power Fail LED	○	○	Vcc
Ground	○	○	#3~4 Reset Button
Ground	○	○	#1~2 Power Button
	2	1	

Back Panel IO Connectors

A. Mouse	F. COM1
B. Keyboard	G. VGA
C. IPMI (-F only)	H. LAN1
D. USB Port 2	I. LAN2
E. USB Port 1	

Note: Graphics shown in this quick reference 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.