SUPERMICRO®

X9SCi-LN4(F) / X9SCA(-F)

Quick Reference Guide Rev. 1.00

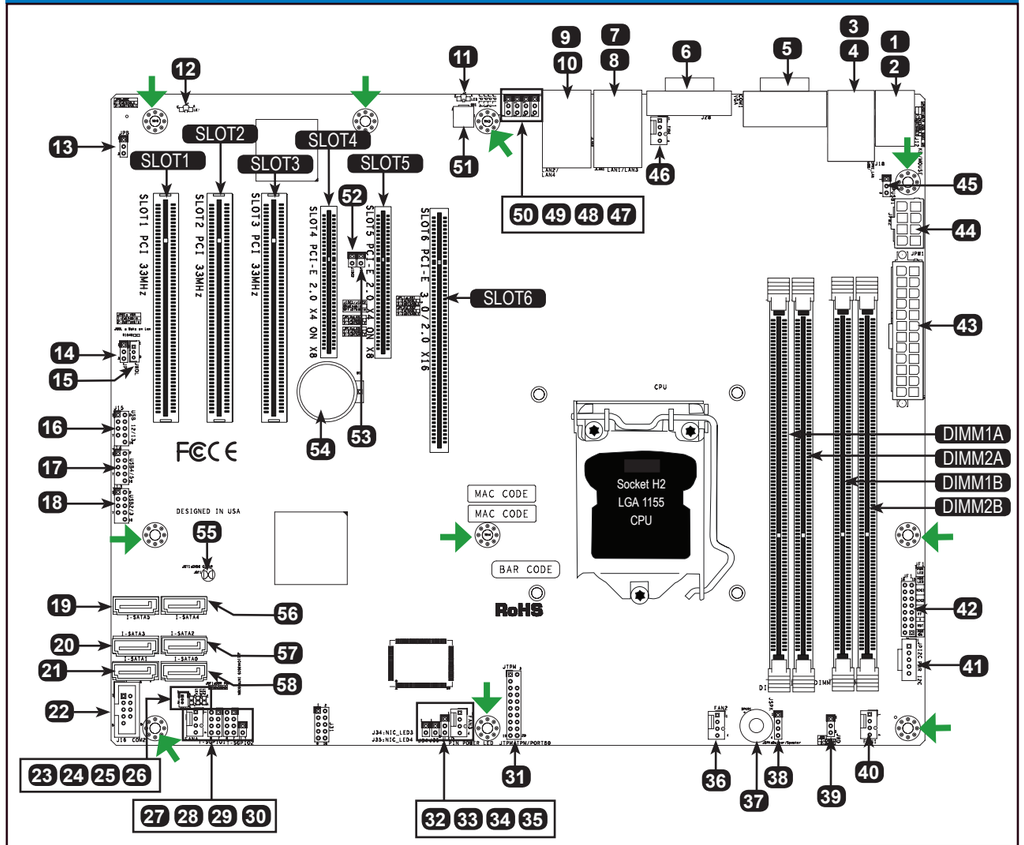
Contact Information

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

Package Contents (Applies to individual-pack only)

- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- One (1) I/O Shield
- One (1) Quick Reference Guide

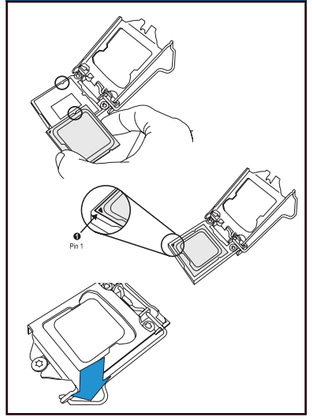
Motherboard Layout and Features



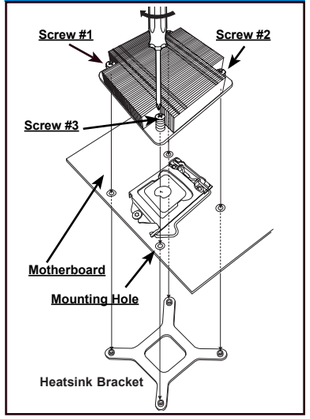
Note: Slot 2, Slot 3, Slot 4 and Slot 5 are availble only on the X9SCA motherboard series.

= mounting hole

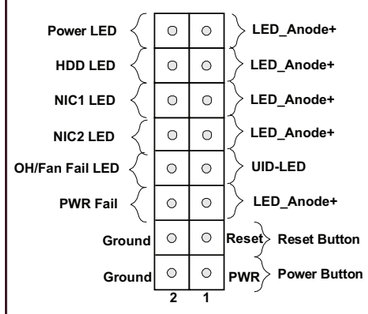
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



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.

Jumpers, Connectors and LED Indicators

Jumpers

13	JPB	BMC Enable (X9SCi-LN4F, X9SCA-F)	Pins 1-2 (Enabled)
14	JPG1	Onboard VGA Enable	Pins 1-2 (Enabled)
39	JWD	Watch Dog Timer Enable	Pins 1-2 (Reset)
45	JPUSB1	Backpanel USB 0/1 Wake-Up Enable	Pins 1-2 (Enabled)
47, 48	JPL1/JPL2	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
49, 50	JPL3/JPL4	LAN3/LAN4 Enable (X9SCi-LN4/-LN4F)	Pins 1-2 (Enabled)
53, 52	JI2C1/JI2C2	SMB to PCI Slots	Open (Disabled)
55	JBT1	CMOS Clear	Short contact pads to reset CMOS

Connectors

1, 2	KB, Mouse	Keyboard/Mouse Connectors
3	IPMI LAN	IPMI LAN (X9SCA-F/X9SCi-LN4F only)
4	USB0/1	Backpanel USB 0/1
5, 22	COM1, COM2	Backpanel COM1 Port, COM2 Header
6	VGA	Onboard Video Port
7, 9, 8, 10	LAN1/LAN2/LAN3/LAN4	Gigabit LAN Ports (LAN3/LAN4: X9SCi-LN4/-LN4F only)
15	JWOL	Wake On LAN Header
16, 17, 18	USB 12/13, USB 4/5, USB 2/3	Front Accessible USB Connections (via 3 Headers)
23	JWF1	SATA DOM (Disk On Module) Power Connector
28, 29	T-SGPIO-1/2	Serial Link General Purpose I/O 1/2 Headers
30	JL1	Chassis Intrusion Header
31	JTPM	Trusted Platform Module (TPM) Header
32, 33	NIC LED3, NIC LED4	LAN3/LAN4 LED Headers (X9SCi-LN4/-LN4F Only)
34	JLED	Power LED Indicator Header
37	SPKR1	Internal Speaker/Buzzer
38	JSPK	Speaker Header (Pins 3/4: Internal, 1~4:External)
40, 36, 35, 46, 27	Fans 1~4, Fan A	System/CPU Fan Headers
41	JPI2C	PWR supply (I2C) System Management Bus
42	JF1	Front Panel Control Header
43	JPW1	24-pin ATX Main Power Connector
44	JPW2	+12V 8-pin CPU power Connector
51	SW1	Unit ID Switch to turn on UID LED (LE5)
54	B1	Onboard Battery
57, 20, 56, 19	SATA 2~5	Serial ATA 2.0 Ports 2~5 (3Mb/s)
58, 21	SATA 0/1	Serial ATA 3.0 Ports 0/1 (6Mb/s)

LED Indicators

11	LE5	UID (Unit ID) LED	Blue: Solid On	UID: On
12	LE7	IPMI Heartbeat (X9SCi-LN4F, X9SCA-F Only)	Green: Blinking	IPMI Normal
24	LE4	Onboard Standby PWR LED	Green: Solid On	Standy Power On
25	LE3	Unsupported Memory Installed Indicator	Yellow: Blinking	Unsupported Memory
26	LE2	Onboard Power On LED	Green: Solid on	System On

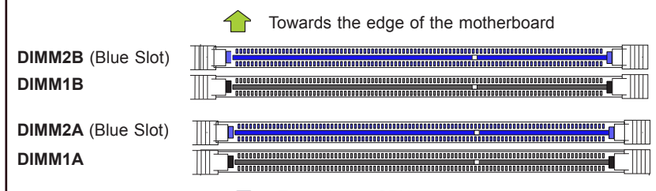
Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Memory Support

The X9SCi/X9SCA Motherboard Series supports up to 32GB of Unbuffered (UDIMM) DDR3 ECC 1600/1333 MHz in 4 memory 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 a at http://www.supermicro.com/products/motherboard.

DIMM Memory Installation



Memory Population Guidelines

When installing memory modules, the DIMM slots should be populated in the following order: DIMM2A, DIMM2B, DIMM1A and DIMM1B.

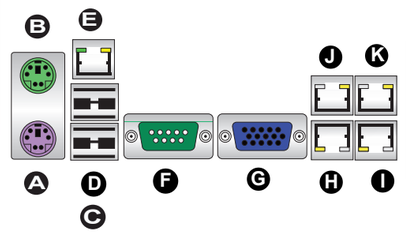
- Always use DDR3 DIMM modules of the same size, type and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support one DIMM module or three DIMM modules installed. However for best memory performance, install DIMM modules in pairs.

Recommended Population (Balanced)

DIMM2A Slot	DIMM2B Slot	DIMM1A Slot	DIMM1B Slot	Total System Memory
2GB	2GB			4GB
2GB	2GB	2GB	2GB	8GB
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB

Note: Due to memory allocation to system devices, the amount of memory that remains available for operational use will be reduced when 4 GB of RAM is used.

Back Panel I/O Connectors



A. Keyboard	G. VGA
B. PS/2 Mouse	H. LAN1
C. USB Port 0	I. LAN2
D. USB Port 1	J. LAN3 (-LN4 only)
E. IPMI (F Models only)	K. LAN4 (-LN4 only)
F. COM1	

Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.

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