SUPERMICRO®

X9SCD(-F)(+-F)(+-HF)

Quick Reference Guide Rev. 1.00

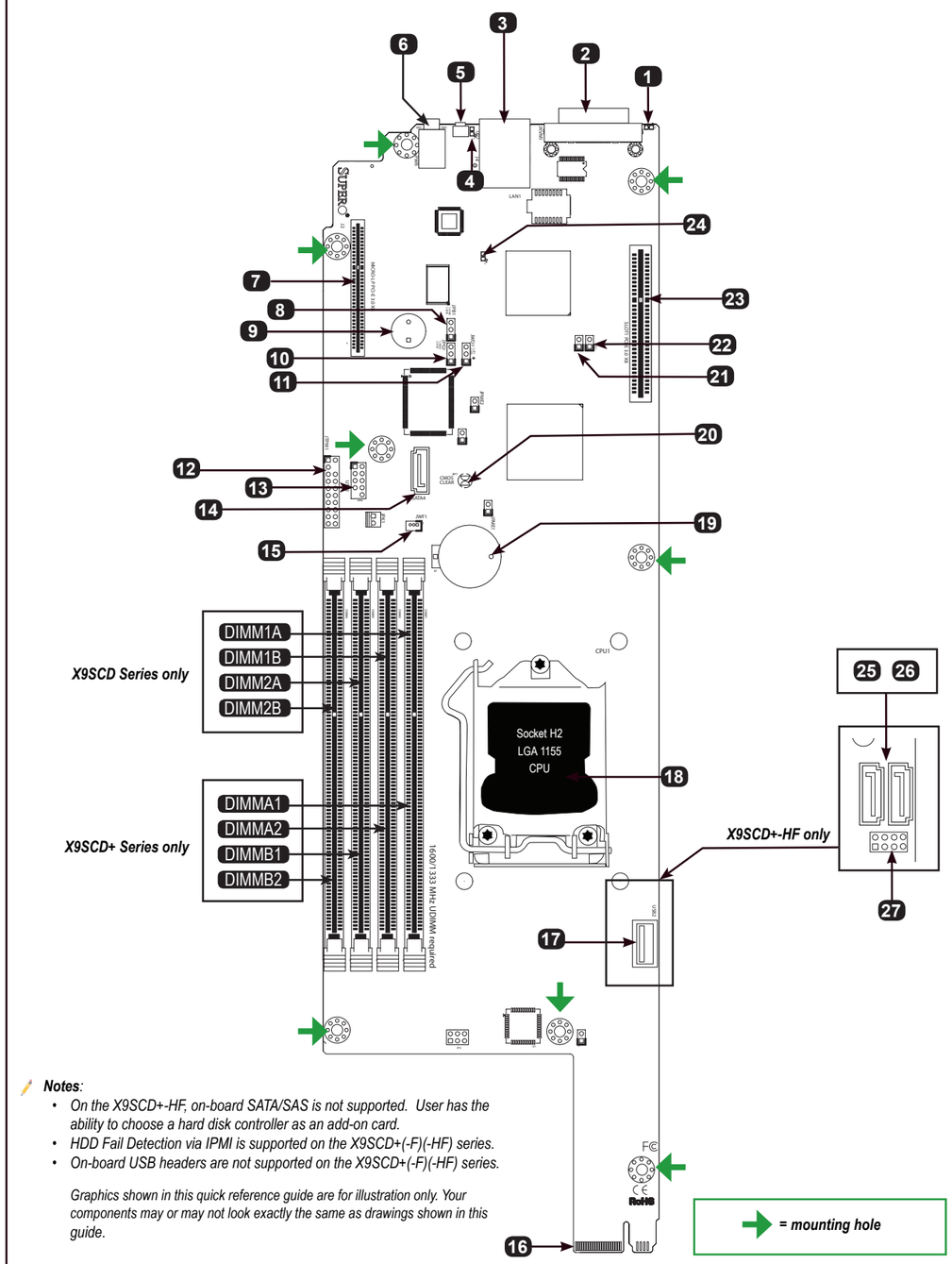
Contact Information

- 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
- One (1) Quick Reference Guide

Motherboard Layout and Features



Notes:

- *On the X9SCD+-HF, on-board SATA/SAS is not supported. User has the ability to choose a hard disk controller as an add-on card.*
- *HDD Fail Detection via IPMI is supported on the X9SCD+(-F)(-HF) series.*
- *On-board USB headers are not supported on the X9SCD+(-F)(-HF) series.*

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.

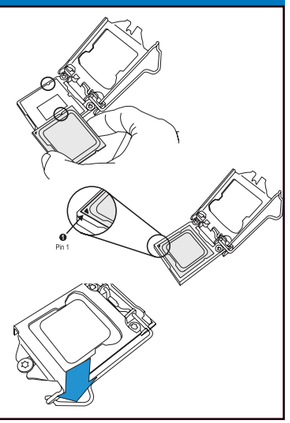
Jumpers, Connectors and LED Indicators

Jumpers			
8	JPB1	BMC Enable/Disable	Pins 1-2 (Enabled)
10	JPG1	Onboard VGA Enable/Disable	Pins 1-2 (Enabled)
11	JWD1	Watch Dog Timer RST/NMI Selection	Pins 1-2 (Reset)
20	JBT1	CMOS Clear	Short contact pads to reset CMOS
21	JI2C2	SMB to PCI Slots	Open (Disabled)
22	JI2C1	SMB to PCI Slots	Open (Disabled)

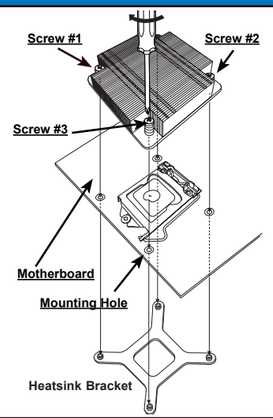
Connectors & LED Indicators		
1	LED5	Fail LED
2	JKVM1	USB / VGA / UART Interface
3	IPMI	RJ45 IPMI Port (with HDD Fail detection on the X9SCD+ series)
4	UID LED	Unit ID LED
5	UID BUTTON	Unit ID Button
6	PWR BTN/LED	Power Button and LED
7	MICRO LP SLOT	For Supermicro Micro LP Cards
9	SPKR1	Internal Speaker / Buzzer
12	JTPM1	Trusted Platform Module (TPM) Header
13	JUSB2	USB Header on the X9SCD-F or USB Type A on the X9SCD+ series
14	I-SATA4	Internal SATA Port
15	JWF1	SATA Disk On Module (DOM) Power Connector
16	IF + PWR	Back Panel Edge Connector (SATA*/Power)
17	JUSB1	Internal (Type A) USB Port (Supported on the X9SCD-F only)
18	CPU	Intel H2 (LGA-1155) CPU Socket
19	BATT	Onboard Battery
23	SLOT1	PCI-E 3.0 or PCI-E 2.0 x 8 Expansion Slot
24	LED4	IPMI Heartbeat (Green: Blinking = Normal)
25,26	S-SATA/SAS 1,0*	Bypass connector from optional internal SATA/SAS add-on card to hard disk drives (X9SCD+-HF only)
27	S-SGPIO1	Serial General Purpose I/O Header for SATA

***Note**: On the X9SCD+-HF, on-board SATA/SAS is not supported. User has the ability to choose a hard disk controller as an add-on card and use the bypass connector to attach external SATA/SAS drives..*

CPU Installation



Heatsink Installation



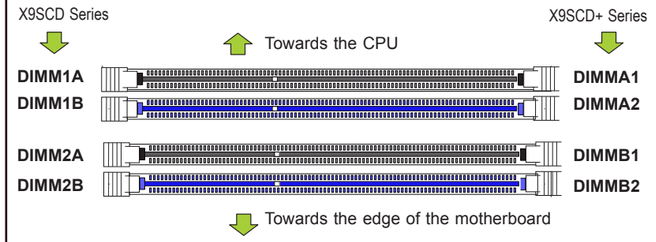
***Note**: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.*

Memory Support

The X9SCD-F Motherboard Series supports up to 32GB of Unbuffered (UDIMM) DDR3 ECC 1600/1333 MHz DIMMs 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

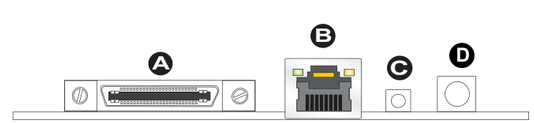
When installing memory modules, the DIMM slots should be populated in the following order: (for the X9SCD series) DIMM1B, DIMM2B, DIMM1A and DIMM2A, (for the X9SCD+ series) DIMMA2, DIMMB2, DIMMA1, and DIMMB1.

- 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. For best memory performance, install DIMM modules in pairs.

Recommended Population (Balanced)				
DIMM1B/A2	DIMM2B/B2	DIMM1A/A1	DIMM2A/B1	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. KVM Port	C. UID Button
B. IPMI Port	D. Power Button

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

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