SUPERMICRO®

X9SRW-F

Quick Reference Guide Rev. 1.00

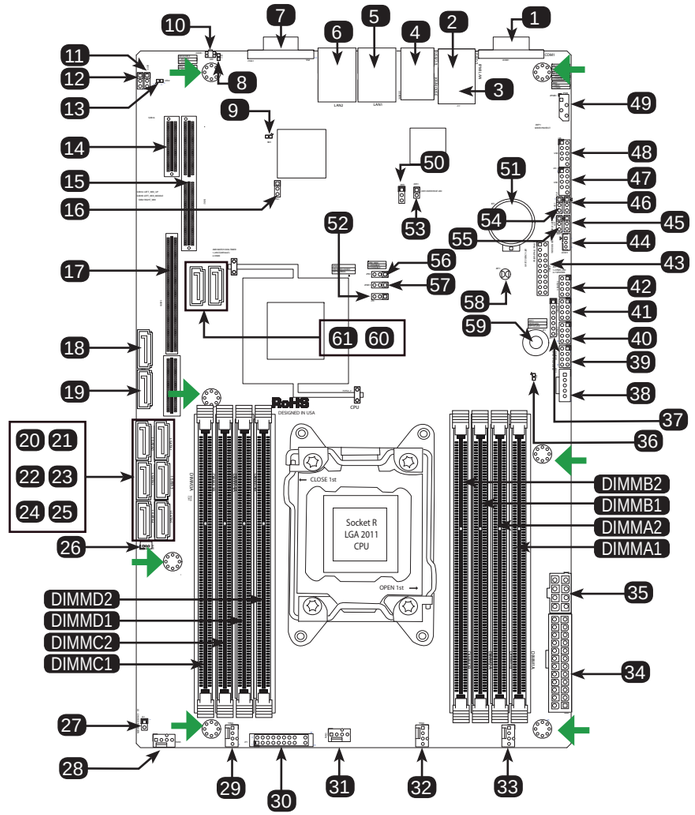
Contact Information

- 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

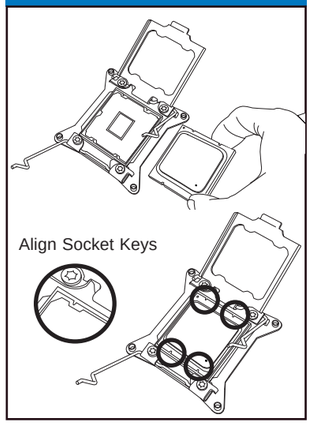
Package Contents (Applies to individual-pack only)

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

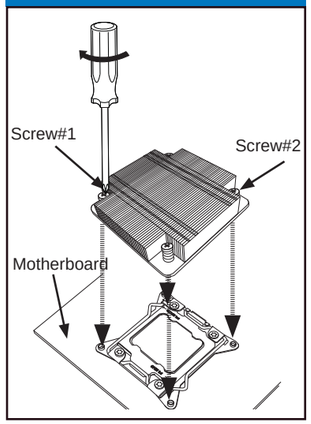
Motherboard Layout and Features



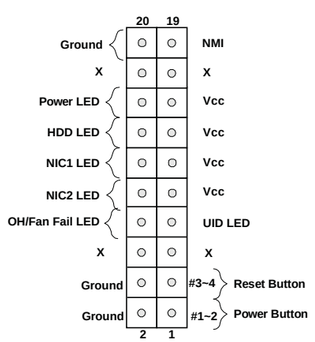
CPU Installation



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

10	UID	Unit ID Switch	Off (Disabled)
11, 12	JI2C3/JI2C2	SMB to PCI Slots	On (Enabled)
16	JPG1	Onboard VGA Enable	Pins 1-2 (On)
45	JWP1	BIOS Write Protect	Pins 1-2 (Normal)
46	JPL1	LAN1 Enable	Pins 1-2 (Enabled)
50	JWD	Watch Dog Timer Reset	Pins 1-2 (Reset)
52	JP3	BIOS Recover	Pins 2-3 (Open)
54	J30	VRM SMB Data (to BMC or PCH)	Pins 1-2 (BMC, Normal)
55	J29	VRM SMB Clock (to BMC or PCH)	Pins 1-2 (BMC, Normal)
56	JPB1	IPMI/BMC Enable	Pins 1-2 (Enabled)
57	JPME1	Intel ME Mode Select	Pins 1-2 (Normal)
58	JBT1	CMOS Clear	Short contact pads to clear CMOS

Connectors

1	JCOM1	Back panel Serial Port Connector
2, 4	USB0/1, USB2/3	Back panel USB 2.0 ports
3	IPMI	Back panel IPMI LAN Port
5, 6	JLAN1/JLAN2	Back panel LAN1 / LAN2 Ethernet Ports
7	JVGA1	Back panel VGA Port
14, 17	SXB1A, SXB1B	Supemicro riser card slot (P/N RSC-R1UW-2E16)
15	SXB2	Supemicro riser card slot (P/N RSC-R1UW-E8R)
18, 19, 60, 61	I-SAS 0,1,3,2 (SATA 3.0)	I-SATA 3.0 ports (supports up to 6Gb/s)
20, 21	I-SATA0, I-SATA1 (SATA 3.0)	Internal SATA ports (up to 6Gb/s)
22, 23, 24, 25	I-SATA 2,3,4,5 (SATA 2.0)	Internal SATA ports (up to 3Gb/s)
26	JSD1	SATA DOM (Disk On Module) Power Connector
27	JL1	Chassis Intrusion Header
28,29,31,32,33	FAN 5,4,3,2,1	Front Panel Control Header
30	JF1	
34	JPW1	24-pin Main ATX Power Connector
35	JPW2	8-pin Secondary Power Connector
37	JD1	Pwr LED / Speaker Header (Pins 4~7:Ext Speaker)
38	JPI2C1	Power Supply SMBus I2C Header
39, 40, 41, 42	T-SGPIO1~4	Serial Link General Purpose I/O Headers
43	JTPM1	Trusted Platform Module (TPM) Header
44	JSTBY1	Legacy Wake On LAN Header
47, 48	USB4/5, 8/9	Internal USB 2.0 headers
49	JIPMB1	System Management Bus Header (IPMI Slot)
51	BT1	System Battery
53	JOH1	Overheat LED/Fan Fail
59	SP1	Internal Speaker / Buzzer

LED Indicators

8	LE2	UID LED	Blue/Steady	UID Switch is On
9	BD1	IPMI Heartbeat	Green/Blinking	IPMI is enabled
13	LED2	Standby 3.3V Power	Green/Steady	Standby Power
36	LE1	Power LED	Green/Steady	System is On/Running

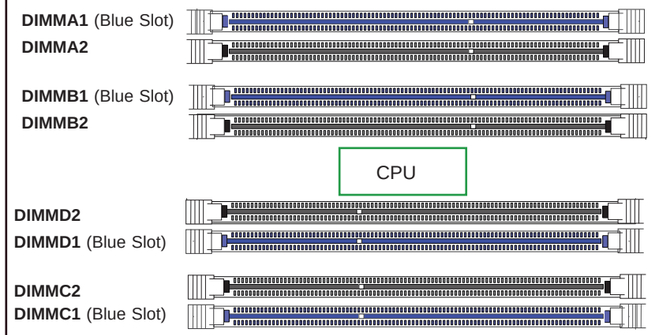
Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Memory Support

The X9SRW Motherboard supports up to 256GB of 1600/1333/1066/800 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 a at http://www.supermicro.com/products/motherboard.

DIMM Memory Installation



Memory Population Guidelines

When installing memory modules, populate the DIMM slots in the following order: DIMMA1, DIMMB1, DIMMC1, DIMMD1 then DIMMA2, DIMMB2, DIMMC2, DIMMD2. Populate the blue-colored slots first.

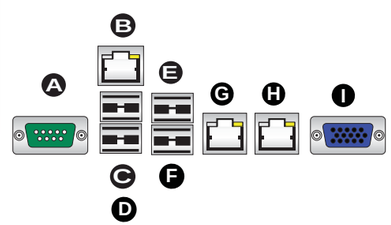
- Always use DDR3 DIMM modules of the same size, type and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules installed (1 ,3 ,5 ,or 7 modules). However, for best memory performance, install DIMM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

Recommended Population (Balanced)

DIMMA1	DIMMB1	DIMMC1	DIMMD1	DIMMA2	DIMMB2	DIMMC2	DIMMD2	Total
2GB	2GB							4GB
2GB	2GB	2GB	2GB					8GB
2GB	2GB	2GB	2GB	2GB	2GB			12GB
2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	16GB

Note: The motherboard supports up to 256GB of total memory. Please consult the user's manual for more populating options.

Back Panel I/O Connectors



A. COM 1	G. LAN1
B. IPMI Port	H. LAN2
C. USB 2.0 Port 1	I. VGA Port
D. USB 2.0 Port 0	
E. USB 2.0 Port 3	
F. USB 2.0 Port 2	

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

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