SUPERMICRO®

X8SIU-F

Quick Reference Guide

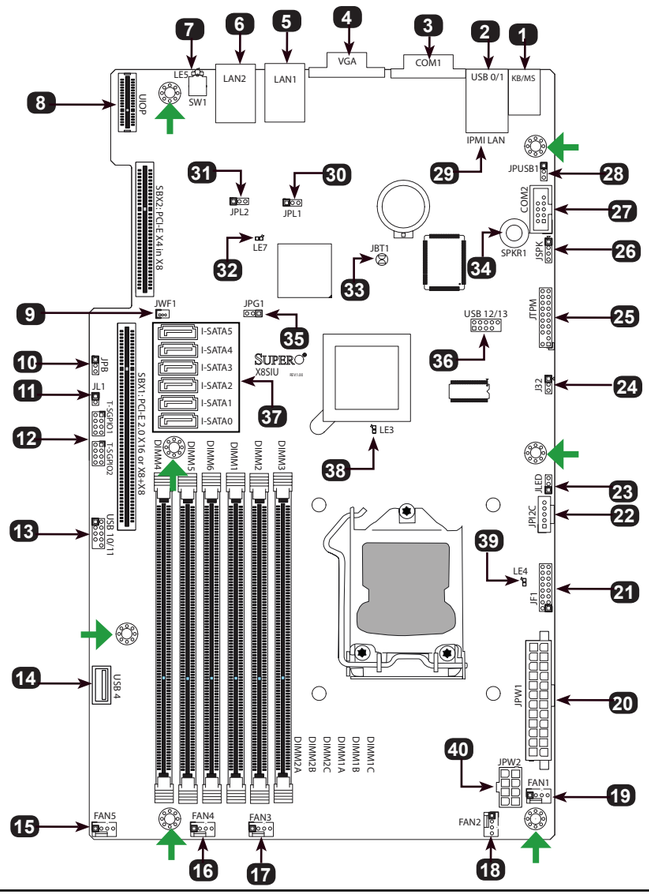
Contact Information

- 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

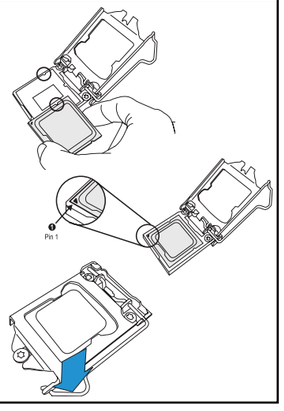
Package Contents (Applies to individual-pack only)

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

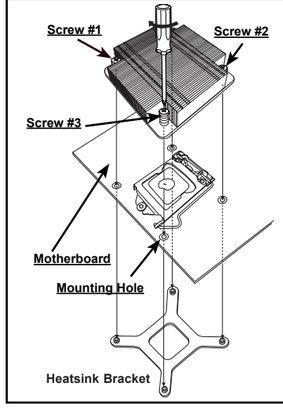
Motherboard Layout and Features



CPU Installation



Heatsink Installation



Front Panel Control (JF1)

	16	15	
Power LED	○	○	LED_Anode+
HDD LED	○	○	LED_Anode+
NIC1 LED	○	○	LED_Anode+
NIC2 LED	○	○	LED_Anode+
OH/Fan Fail	○	○	UID LED
PWR Fail	○	○	LED_Anode+
Ground	○	○	Reset Button
Ground	○	□	Power Button
	2	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.

Jumpers, Connectors and LED Indicators

Jumpers

Item #	Jumper	Description	Default
10	JPB	BMC Jumper	Pins 1-2 (Enabled)
24	J32	SBX1 Slot Configuration Select	Pins 1-2 (PCIE x16: default) Pins 2-3 (PCIE x8 + x8)
26	JSPK	External Speaker Select	Pins 1-2 (External) Pins 3-4 (Onboard: default)
28	JPUSB1	USB Wake-up	Pins 1-2 (Enabled)
30	JPL1	LAN1 Enable	Pins 1-2 (Enabled)
31	JPL2	LAN2 Enable	Pins 1-2 (Enabled)
33	JBT1	CMOS Clear	See Chapter 2 in User Manual
35	JPG1	Onboard VGA Enable	Pins 1-2 (Enabled)

Connectors

Item #	Connector	Description
1	KB/MS	Keyboard (Purple) and Mouse (Green) PS/2 Ports
2	USB 0/1	Back Panel USB Ports (USB 0/1)
3, 27	COM1, COM2	COM Port 1, COM2 Header
4	VGA	Back Panel VGA Port
5, 6	LAN1, LAN2	Back Panel LAN Ports
8	UIOP	Universal I/O Power Connector (for riser card)
9	JWF1	Disk-On-Module (DOM) Power Header
11	JL1	Chassis Intrusion Header
12	T-SGPIO-1/2	Serial General Purpose I/O Headers
13	USB 10/11	Front Panel USB Header (USB 10/11)
14	USB 4	Internal Type A USB Port (USB 4)
15, 16, 17, 18, 19	Fan 5, 4, 3 ,2 ,1	System Fan Power Connectors (CPU: Fan 1)
20	JPW1	24-pin Main ATX Power Connector
21	JF1	Front Panel Control Header
22	JPI²C	PWR supply (I²C) System Management Bus
23	JLED	Power LED Indicator Header
25	JTPM	TPM Header
29	IPMI LAN	Back Panel IPMI LAN Port
34	SPKR1	Internal Speaker/Buzzer
36	USB 12/13	Front Panel USB Header (USB 12/13)
37	I-SATA 0~5	SATA Ports (0~5)
40	JPW2	8-Pin Auxilliary Power

LED Indicators

Item #	LED	Description	Color/State	Status
7	LE5	Unit ID LED	Blue: Solid On	UID On
32	LE7	IPMI Heartbeat LED	Yellow: Blinking	IPMI Normal
38	LE3	Memory Status LED	Yellow: Blinking	Unsupported Memory
39	LE4	Standby Power LED	Green: On	Power On

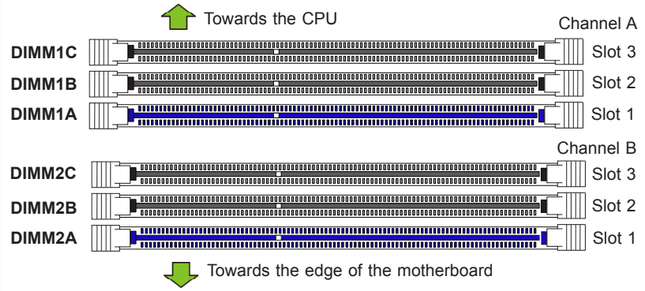
Note: Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Memory Support

This motherboard supports up to 16GB of Unbuffered (UDIMM) or up to 32GB of Registered (RDIMM) DDR3 ECC 800/1066/1333 MHz memory in 6 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 at http://www.supermicro.com/products/motherboard.

DIMM Installation



Memory Population Guidelines

Please refer to the tables below when populating the DIMM slots.

Table 1 - DDR3 ECC/Unbuffered (UDIMM) Memory Support

ECC UDIMM	1Gb (x8 DRAM)	2Gb (x8 DRAM)
Single Rank	Up to 4GB (4 x 1GB DIMM Modules)*	Up to 8GB (4 x 2GB DIMM Modules)*
Dual Rank	Up to 8GB (4 x 2GB DIMM Modules)*	Up to 16GB (4 x 4GB DIMM Modules)*
Quad Rank	Not Supported	Not Supported

*For ECC UDIMMs, only Slot 1 and Slot 2 may be populated per channel.

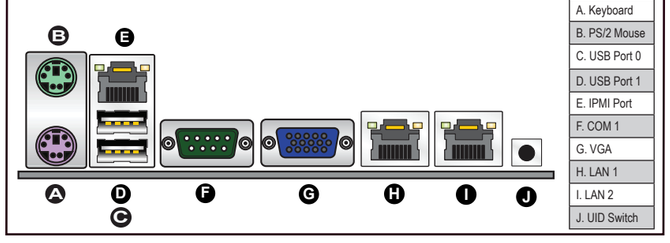
Table 2 - DDR3 ECC Registered (RDIMM) Memory Support

RDIMM	1Gb (x8 DRAM)	2Gb (x8 DRAM)
Single Rank	Up to 6GB (6 x 1GB DIMM Modules)	Up to 12GB (6 x 2GB DIMM Modules)
Dual Rank	Up to 12GB (6 x 2GB DIMM Modules)	Up to 24GB (6 x 4GB DIMM Modules)
Quad Rank	Up to 16GB (4 x 4GB DIMM Modules)**	Up to 32GB (4 x 8GB DIMM Modules)**

**For Quad Rank RDIMMs, only Slot 1 and Slot 2 are populated per channel.

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

Back Panel IO Connectors



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