

CONTACT INFORMATION

- Website: www.supermicro.com
- General Information: marketing@supermicro.com
- Technical Support: support@supermicro.com
- Phone: +1 (408) 503-8000, Fax: +1 (408) 503-8008

FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:

- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <https://www.supermicro.com/wftp/driver/>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

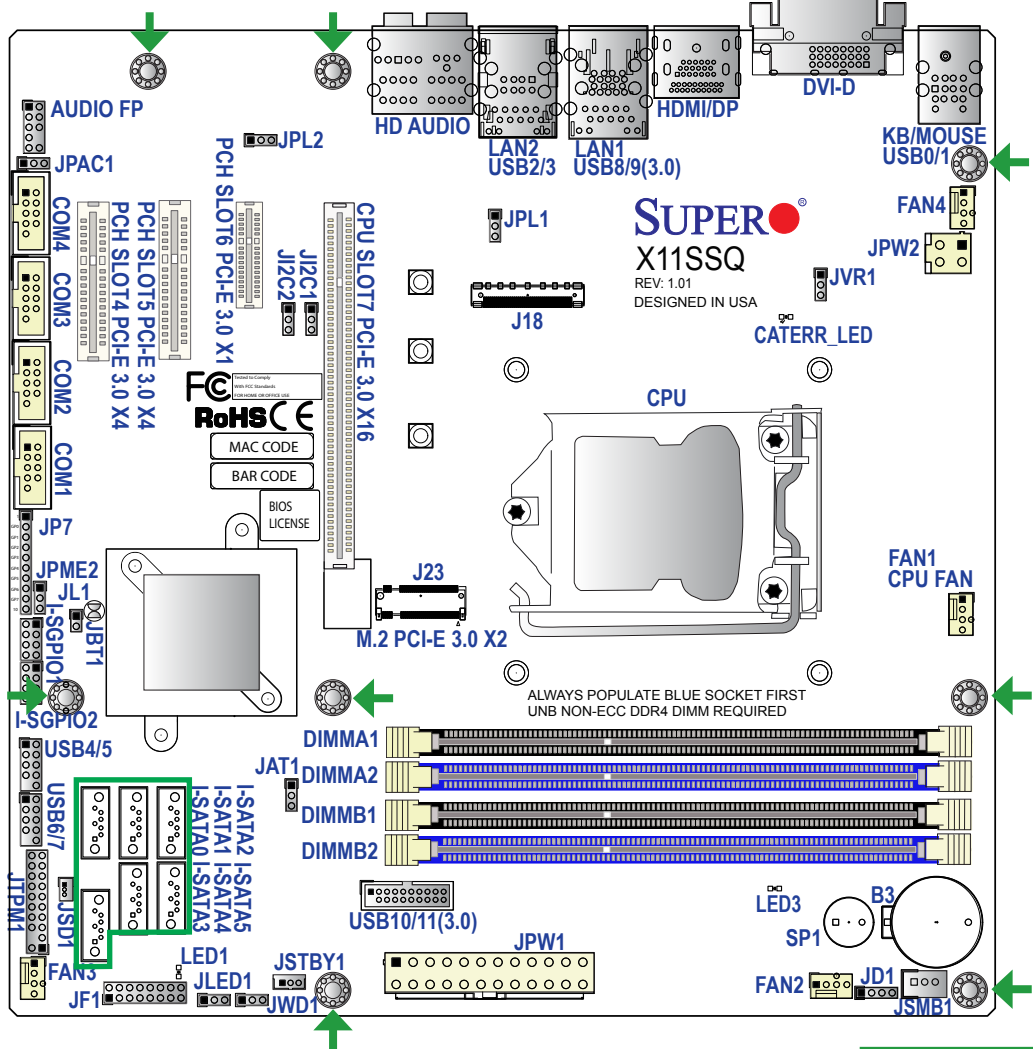
PACKAGE CONTENTS

- One (1) Supermicro Motherboard
- Six (6) SATA Cables, Four (4) on -L SKU
- One (1) I/O Shield
- One (1) Quick Reference Guide



WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Motherboard Layout and Features



Connectors and Jumpers

Connectors	
Connector	Description
AUDIO FP	Audio Front Panel Header
B3	Onboard Battery
COM1 ~ COM4	COM Headers (COM3/COM4 on X11SSQ/-V only)
DVI-D	Digital Video Interface Port (Back panel)
FAN1 ~ FAN4	System/CPU Fan Headers (FAN1: CPU Fan)
HD Audio	High-Definition Audio Connector (Back panel)
HDMI/DP	High-Definition Multimedia Interface/DisplayPort Connector (Back panel)
I-SATA0 ~ I-SATA5	Intel® SATA 3.0 Ports (I-SATA4/5 on X11SSQ/-V only)
I-SGPIO1/2	Serial General Purpose I/O Headers for SATA (X11SSQ/-V only)
J18	Embedded DisplayPort (eDP) (X11SSQ only)
J23	M.2 Connector (X11SSQ/-V only)
JD1	Speaker/Buzzer Header (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Connector
JL1	Chassis Intrusion Header
JLED1	3-Pin Power LED
JP7	General Purpose I/O Header (X11SSQ/-V only)
JPW1	24-pin ATX Main Power Connector (Required)
JPW2	+12V 4-pin CPU Power Connector (Required)
JSD1	SATA DOM Power Connector
JSMB1	SMBus Header
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module/Port 80 Connector
LAN1/LAN2	LAN (RJ45) Ports (LAN2 on X11SSQ/-V only)
SLOT4	PCH PCI-E 3.0 x4 Slot on X11SSQ/-V (PCI-E 2.0 x4 Slot on X11SSQ-L)
SLOT5	PCH PCI-E 3.0 x4 Slot (X11SSQ/-V only)
SLOT6	PCH PCI-E 3.0 x1 Slot on X11SSQ/-V (PCI-E 2.0 x1 Slot on X11SSQ-L)
SLOT7	CPU PCI-E 3.0 x16 Slot
SP1	Internal Speaker/Buzzer
KB/Mouse	Keyboard and Mouse Connector (Back panel)
USB0/1, 2/3, 8/9	Back panel Universal Serial Bus (USB) Ports (Ports 8/9: USB 3.0) (USB2/3 on X11SSQ/-V only)
USB4/5, 6/7, 10/11	Front Accessible USB Headers (Headers 10/11: USB 3.0)

Jumpers		
Jumper	Description	Default Setting
JAT1	ATX/AT mode	Pins 1-2 (ATX mode)
JBT1	CMOS Clear	Open (Normal)
J12C1/J12C2	SMB to PCI-E Slots Enable/Disable	Pins 2-3 (Disabled)
JPAC1	Audio Enable	Pins 1-2 (Enabled)
JPL1/JPL2	LAN1/2 Enable/Disable (JPL2 on X11SSQ/-V only)	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode	Pins 1-2 (Normal)
JWD1	Watch Dog	Pins 1-2 (Reset)

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

LED Indicators

LED Indicators		
LED	Description	Status
CATERR_LED	Catastrophic error LED	Orange: CAT Error
LED1	Power LED	Green: Power On
LED3	Standby Power LED	Green: Power On

CPU Support

The X11SSQ/-L/-V motherboard supports an Intel® 7th/6th Generation Core™ i7/i5/i3, Pentium®, and Celeron® processor in an LGA1151 socket. Based on the 14nm microarchitecture, this processor features high-performance graphics and Hyper-Threading Technology.

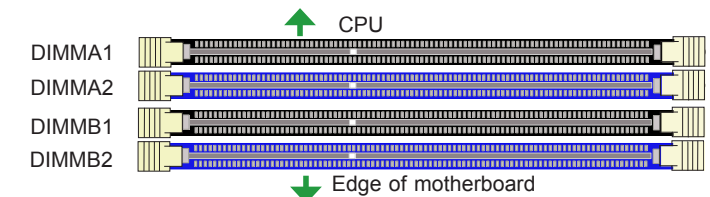
Memory Support

The X11SSQ/-V motherboard supports up to 64GB of Unbuffered (UDIMM) DDR4 Non-ECC 1866/2133 MHz in four memory slots. The X11SSQ-L supports up to 32GB in two slots: DIMMA1/DIMMB1. Populating these DIMM modules with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.

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

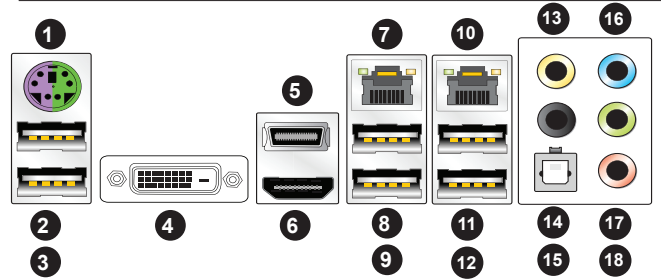
When installing memory on the X11SSQ/-V, the DIMM slots must be populated in the following order: DIMMA2, DIMMB2, then DIMMA1, DIMMB1. Always populate the blue slots first. On the X11SSQ-L, populate DIMMA1 initially and then DIMMB1.



Recommended Population (Balanced)				
DIMMA2	DIMMB2	DIMMA1	DIMMB1	Total System Memory
2GB	2GB			4GB
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB
16GB	16GB	16GB	16GB	64GB

Back Panel I/O Connectors

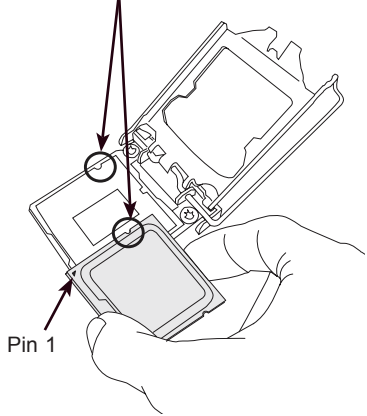
1. Keyboard/Mouse	7. LAN1	13. CEN/LFE_Out
2. USB0	8. USB8 (3.0)	14. Surround_Out
3. USB1	9. USB9 (3.0)	15. SPDIF_Out
4. DVI-D Port	10. LAN2 (X11SSQ/-V only)	16. Line_In
5. DisplayPort	11. USB2 (X11SSQ/-V only)	17. Line_Out
6. HDMI	12. USB3 (X11SSQ/-V only)	18. Mic_In



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

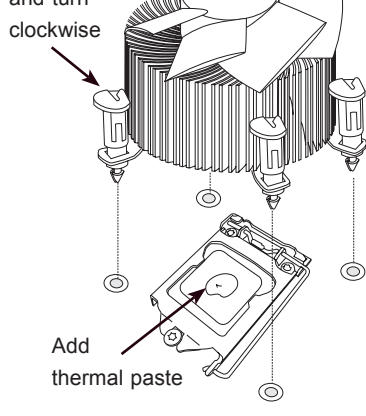
CPU Installation

Align the CPU key with the socket key



Heatsink Installation

Push down and turn clockwise



Front Control Panel (JF1)

PWR	Power Button	1	2	Ground
Reset	Reset Button			Ground
X				X
3.3V				OH/Fan Fail LED
3.3V Stby				NIC2 Activity LED
3.3V Stby				NIC1 Activity LED
3.3V				HDD LED
3.3V Stby				Power LED
		15	16	

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.