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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

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

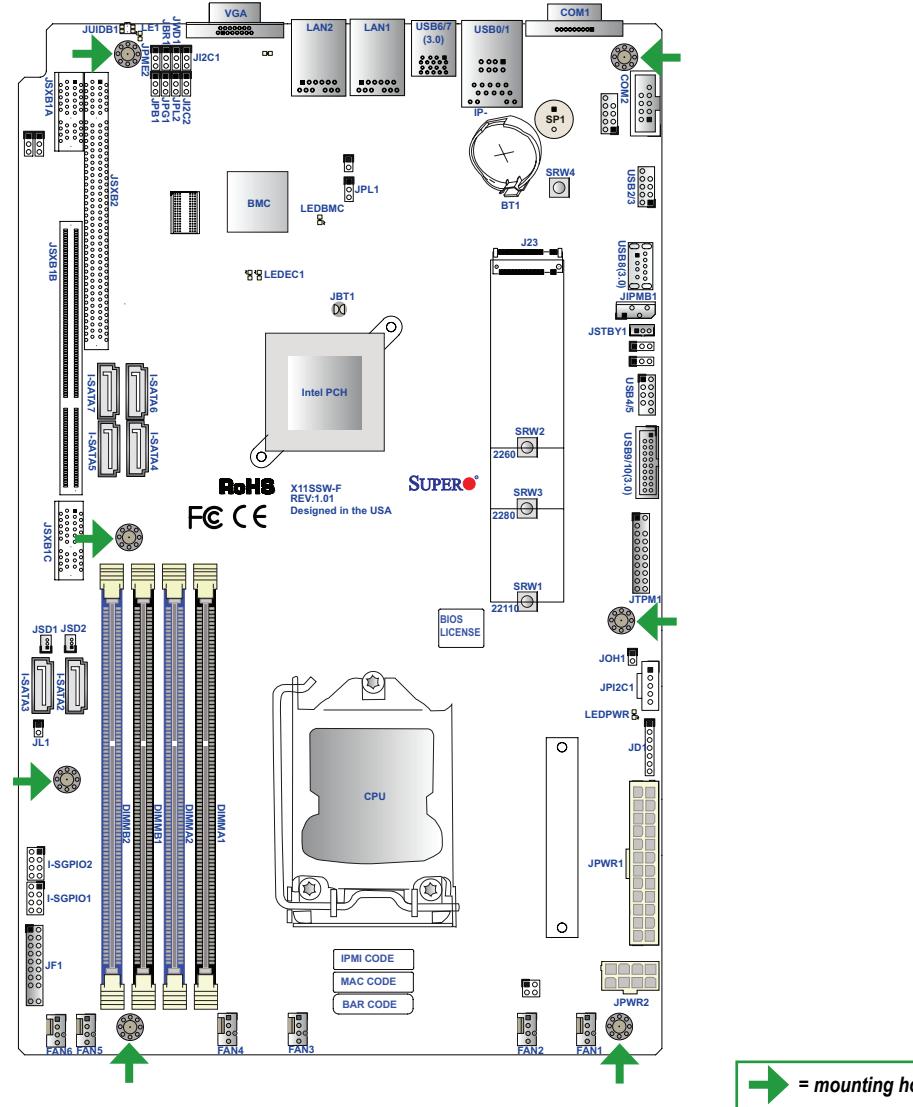
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: [ftp://ftp.supermicro.com/CDR_Images/CDR-X11-UP/](http://ftp.supermicro.com/CDR_Images/CDR-X11-UP/)
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

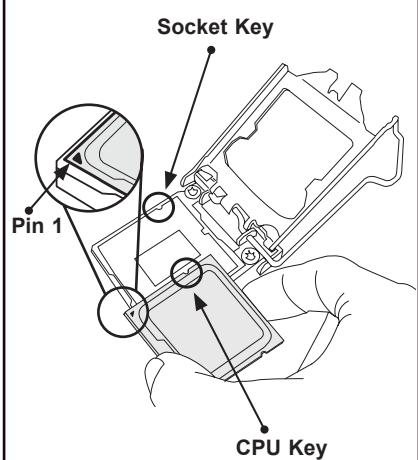
- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- One (1) Quick Reference Guide

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.

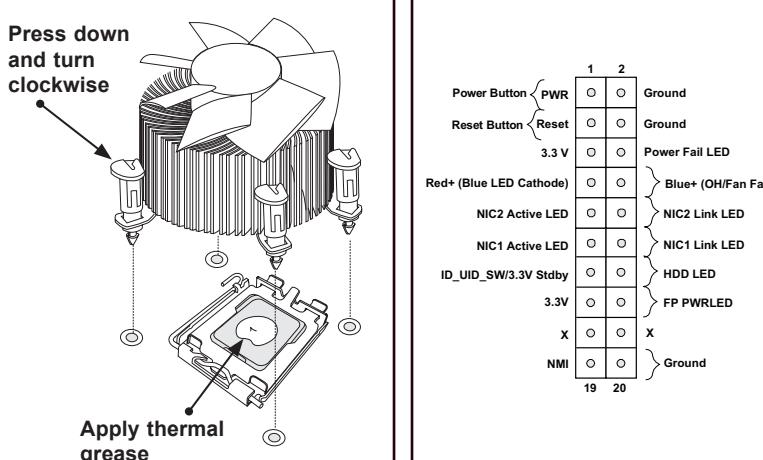
Motherboard Layout and Features



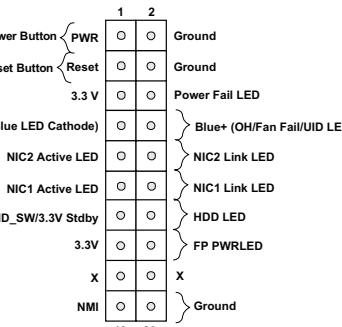
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



CPU Support

The X11SSW-F motherboard supports an Intel Xeon E3-1200 v6/v5, 7th/6th Gen Core i3, Pentium, and Celeron series processor in an LGA1151 type socket.

Jumpers and Connectors

| Jumpers | | |
|---------------------------------------|---------------------------|----------------------------|
| Jumper | Description | Default |
| JBR1 | BIOS Recovery | Pins 1-2 (Normal) |
| JBT1 | Clear CMOS | See Chpt. 2 in User Manual |
| JI ² C1/JI ² C2 | SMB to PCI Slots | Pins 2-3 (Disabled) |
| JPB1 | BMC Enable/Disable | Pins 1-2 (Enabled) |
| JPG1 | VGA Enable | Pins 1-2 (Enabled) |
| JPL1/JPL2 | LAN1/LAN2 Enable | Pins 1-2 (Enabled) |
| JPM2 | Manufacturing Mode Select | Pins 1-2 (Normal) |
| JWD1 | Watch Dog Enable | Pins 1-2 (Reset) |

Connectors

| Connector | Description |
|-----------------|---|
| BT1 | Onboard Battery |
| COM1/COM2 | COM1/COM2 Port Headers |
| FAN1-FAN6 | System/CPU Fan Headers |
| IPMI_LAN | IPMI_Dedicated Gigabit (RJ45) Port |
| I-SATA2-I-SATA7 | SATA 3.0 Connectors via Intel PCH (6Gb/s) |
| I-SGPIO 1/2 | Serial_General Purpose I/O Connection Headers for I-SATA 3.0 connections (I-SGPIO1 for I-SATA2-3, I-SGPIO2 for I-SATA4-7) |
| J23 | M.2 Socket 3 (supports 2260, 2280, 22110 for NVMe and SATA SSD) |
| JD1 | Speaker/Power LED Indicator |
| JF1 | Front Control Panel Header |
| JIPMB1 | 4-pin External BMC I ² C Header (for an IPMI Card) |
| JL1 | Chassis Intrusion Header |
| JOH1 | Overheat LED Indicator |
| JPI2C1 | Power I ² C System Management Bus (Power SMB) Header |
| JPWR1 | 24-pin ATX Main Power Connector (Required) |
| JPWR2 | +12V 8-pin CPU Power Connector (Required) |
| JSD1/JSD2 | SATA Disk On Module (DOM) Power Connectors |
| JSTBY1 | Standby Power Header |
| JSXB1A/1B/1C | SMC-Proprietary WIO_L (Left) Add-On Card Slot |
| JSXB2 | SMC-Proprietary WIO_R (Right) Add-On Card Slot |
| JTPM1 | Trusted Platform Module (TPM)/Port 80 Connector |
| JUIDB1 | UID (Unit Identification) Switch |
| LAN1/LAN2 | Gigabit (RJ45) LAN Ports |
| SP1 | Internal Speaker/Buzzer |
| USB 0/1 | Back Panel USB 2.0 Ports |
| USB 2/3 | USB 2.0 Header |
| USB 4/5 | USB 2.0 Header |
| USB 6/7 | Back Panel USB 3.0 Ports |
| USB 8 | USB 3.0 Type-A Header |
| USB 9/10 | Front Panel Accessible USB 3.0 Header |
| VGA | Back Panel VGA Port |

LED Indicators

| LED Indicators | | | |
|----------------|--------------------------|-----------------|-----------------|
| LED | Description | Color/State | Status |
| LE1 | Rear UID LED | Blue: On | Unit Identified |
| LEDBMC | BMC Heartbeat LED | Green: Blinking | BMC Normal |
| LEDEC1 | EC Heartbeat LED | Green: Blinking | EC Normal |
| LEDPWR | System Standby Power LED | Green: Solid On | Power On |

Memory Support

The X11SSW-F motherboard supports up to 64GB of DDR4 ECC UDIMM memory at a speed of up to 2400MHz in four memory slots. Populating these DIMM slots with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.

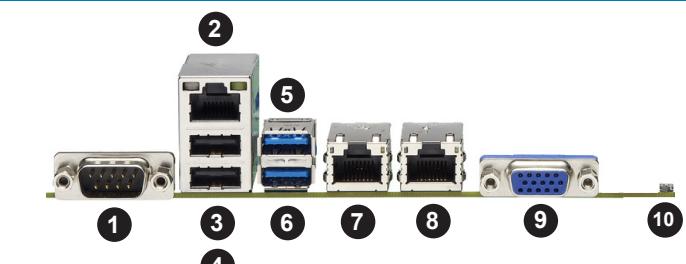
DIMM Memory Installation

When installing memory modules, the DIMM slots should be populated in the following order: DIMMB2, DIMMA2, then DIMMB1, DIMMA1. Populate the blue slots first. See the motherboard layout on the left for the DIMM slot locations.

- Always use DDR4 DIMM modules of the same type, size, 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 (1 or 3 modules installed). However, for best memory performance, install DIMM modules in pairs to activate memory interleaving.

| Recommended Population (Balanced) | | | | |
|-----------------------------------|--------|--------|--------|---------------------|
| DIMMA1 | DIMMB1 | DIMMA2 | DIMMB2 | 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 |
| | | 16GB | 16GB | 32GB |
| 16GB | 16GB | 16GB | 16GB | 64GB |

Back Panel I/O Connectors



| # | Description | # | Description |
|---|--------------------|----|-------------|
| 1 | COM1 | 6 | USB6 (3.0) |
| 2 | Dedicated IPMI LAN | 7 | LAN1 |
| 3 | USB1 (2.0) | 8 | LAN2 |
| 4 | USB0 (2.0) | 9 | VGA Port |
| 5 | USB7 (3.0) | 10 | UID Switch |

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