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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/>
- Safety: [http://www.supermicro.com/about/policies/safety\\_information.cfm](http://www.supermicro.com/about/policies/safety_information.cfm)

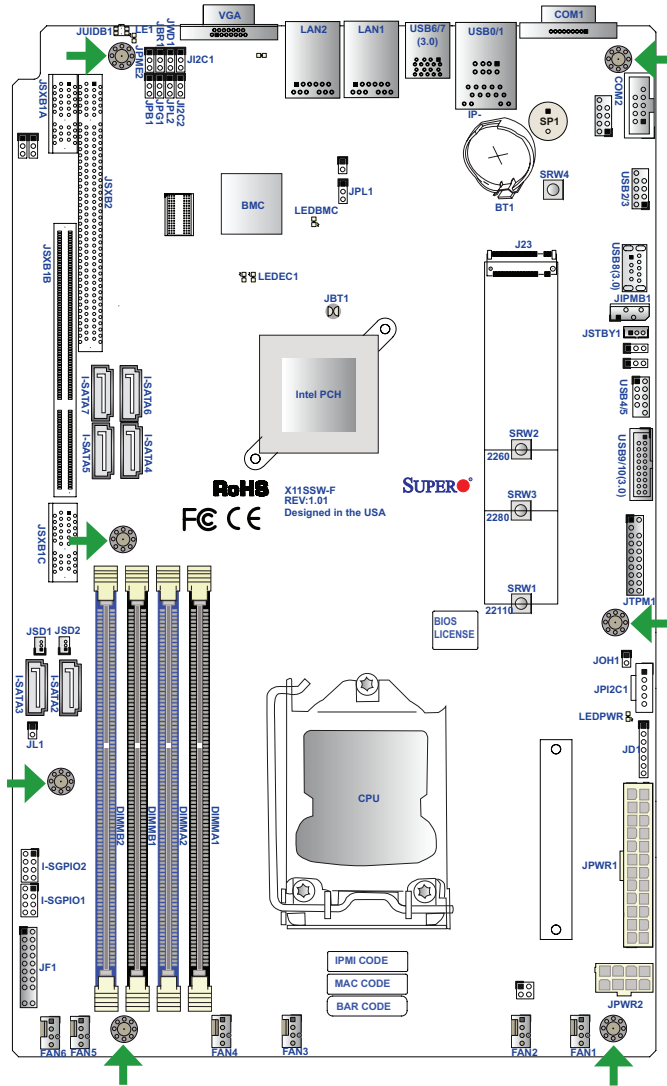
PACKAGE CONTENTS

- 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](http://www.P65Warnings.ca.gov).

Motherboard Layout and Features



Jumpers and Connectors

Jumpers		
Jumper	Description	Default
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	Clear CMOS	See Chpt. 2 in User Manual
J12C1/J12C2	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)
JPME2	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_Link 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 I2C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JOH1	Overheat LED Indicator
JPI2C1	Power I2C 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

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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 I2C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JOH1	Overheat LED Indicator
JPI2C1	Power I2C System Management Bus (Power SMB) Header
JPWR1	24-pin ATX Main Power Connector (Required)
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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.

LED Indicators

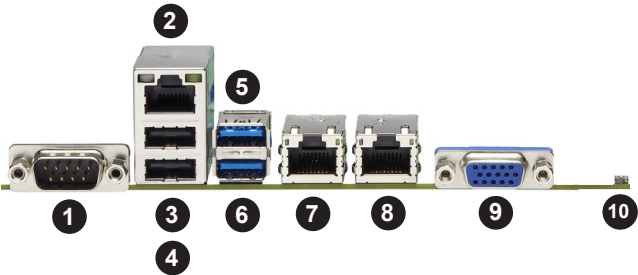
LED Indicators			
LED	Description	Color/State	Status
LE1	Rear UID LED	Blue: On	Unit Identified
LEDBMC	BMC Heartbeat LED	Green: Blinking	BMC Normal
LEDEC1	EC Heartbeat LED	Green: Blinking	EC Normal
LEDPWR	System Standby Power LED	Green: Solid On	Power On

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.

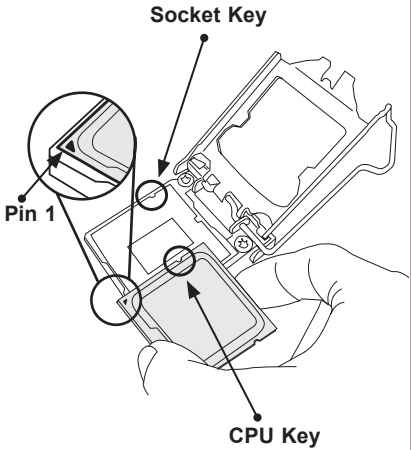
DIMM Memory Installation				
When installing memory modules, the DIMM slots should be populated in the following order: DIMMB2, DIMMA2, then DIMMB1, DIMMA1. Populate the blue slots first. See the motherboard layout on the left for the DIMM slot locations.				
• Always use DDR4 DIMM modules of the same 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

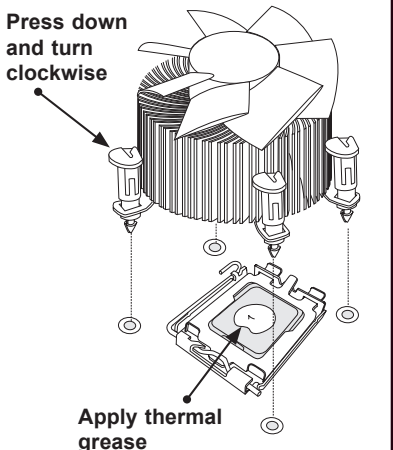


#	Description	#	Description
1	COM1	6	USB6 (3.0)
2	Dedicated IPMI LAN	7	LAN1
3	USB1 (2.0)	8	LAN2
4	USB0 (2.0)	9	VGA Port
5	USB7 (3.0)	10	UID Switch

CPU Installation



Heatsink Installation



Front Panel Control (JF1)

Power Button	PWR	1	2	Ground
Reset Button	Reset	3	4	Ground
3.3 V		5	6	Power Fail LED
Red+ (Blue LED Cathode)		7	8	Blue+ (OH/Fan Fail/UID LED)
NIC2 Active LED		9	10	NIC2 Link LED
NIC1 Active LED		11	12	NIC1 Link LED
ID_UID_SW/3.3V Stdby		13	14	HDD LED
3.3V		15	16	FP PWRLED
X		17	18	X
NMI		19	20	Ground

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.

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

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