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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: <https://www.supermicro.com/wftp/driver>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

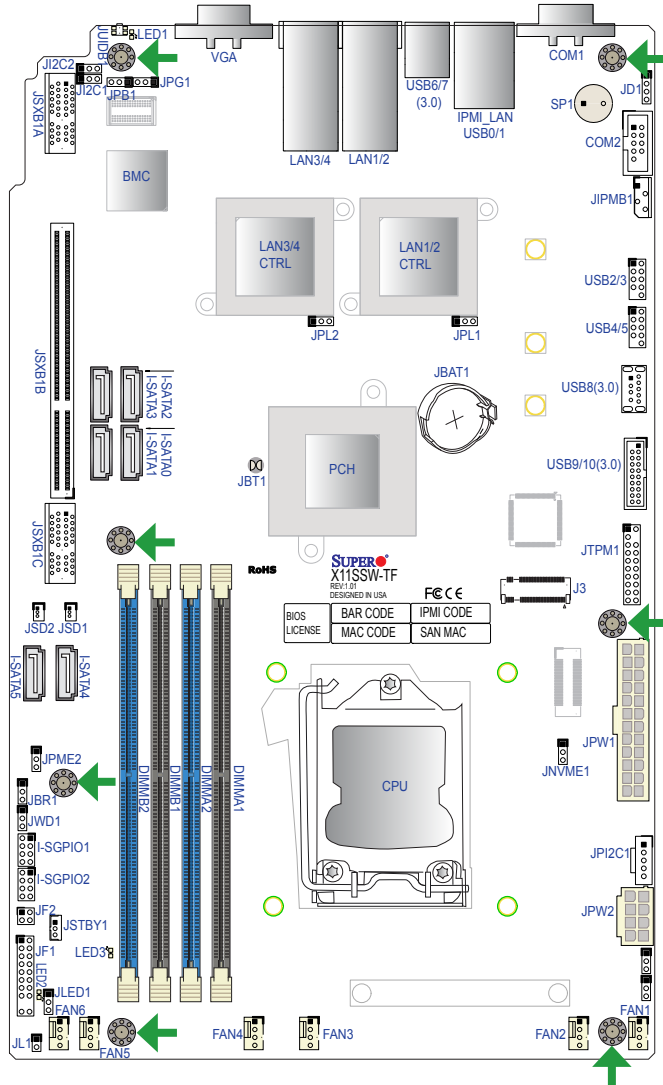
PACKAGE CONTENTS

- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- 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



→ = mounting hole

Jumpers and Connectors

Jumpers		
Jumper	Description	Default
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	Clear CMOS	Short: Clear CMOS, Open: Normal
J12C1/J12C2	SMB to PCI Slots	Pins 1-2 (Enabled)
JNVME1	NVMe Enable	Pins 2-3 (Auto)
JPB1	BMC Enable/Disable	Pins 1-2 (Enabled)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
JPL2	LAN3/LAN4 Enable	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JWD1	Watch Dog Enable	Pins 1-2 (Reset)

Connectors	
COM1/COM2	COM1: Port/COM2: Header
FAN1 ~ FAN6	System/CPU Fan Headers
IPMI_LAN	Dedicated IPMI Gigabit (RJ45) Port
I-SATA0 ~ I-SATA5	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-SATA0~3, I-SGPIO2 for I-SATA4~5)
J3	M.2 Socket 3 (supports 2260, 2280, 22110 for NVMe)
JBAT1	Onboard Battery
JD1	Speaker/Buzzer Header (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Header
JF2	Activity LED Header for LAN3/LAN4
JIPMB1	4-pin External BMC I ² C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JLED1	3-pin Power LED Indicator Header
JPI2C1	Power I2C System Management Bus (Power SMB) Header
JPW1	24-pin ATX Main Power Connector (Required)
JPW2	+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
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	UID (Unit Identification) Switch
LAN1/LAN2/LAN3/LAN4	10 Gigabit (RJ45) LAN Ports
SP1	Internal Speaker/Buzzer
USB 0/1	Back Panel USB 2.0 Ports
USB 2/3, USB 4/5	Front Accessible USB 2.0 Headers
USB 6/7	Back Panel USB 3.0 Ports
USB 8	Front Accessible USB 3.0 Type-A Header
USB 9/10	Front Accessible USB 3.0 Header
VGA	Back Panel VGA Port

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
LED1	Rear UID LED	Blue On: Unit Identified
LED2	Power LED	Solid Green: Power On
LED3	Standby Power LED	Solid Green: Standby Power On

CPU Support

The X11SSW-TF/-4TF supports an Intel® Xeon® E3-1200 v6/v5, 7th/6th Gen Core™ i3, Pentium®, and Celeron® series processors in an LGA1151 socket.

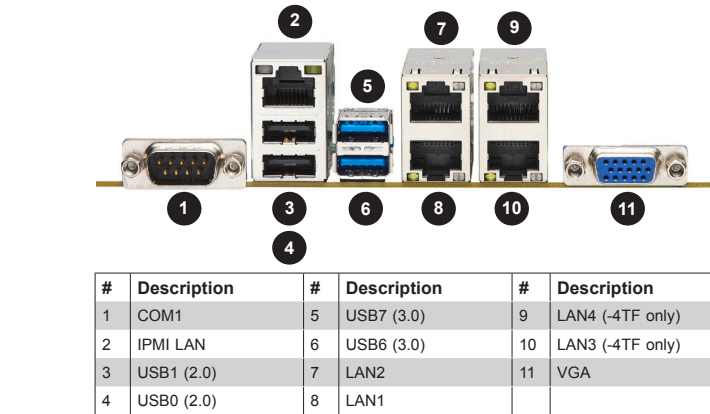
Memory Support

The X11SSW-TF/-4TF 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.
- 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.

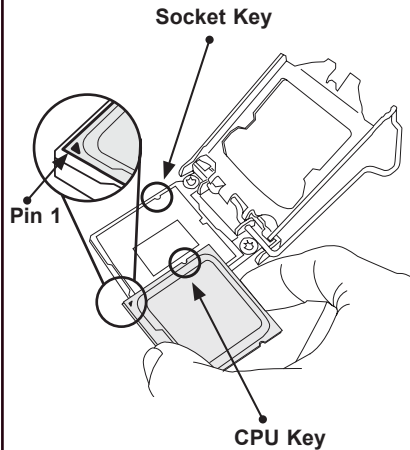
Recommended Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
		2GB	2GB	4GB
2GB	2GB	2GB	2GB	8GB
		4GB	4GB	8GB
4GB	4GB	4GB	4GB	16GB
		8GB	8GB	16GB
8GB	8GB	8GB	8GB	32GB
		16GB	16GB	32GB
16GB	16GB	16GB	16GB	64GB

Back Panel I/O Connectors

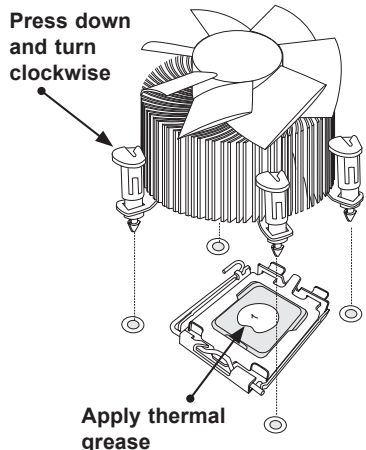


Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.

CPU Installation



Heatsink Installation



Front Control Panel (JF1)

Power Button { PWR	1	2	Ground
Reset Button { Reset	3	4	Ground
3.3 V	5	6	NC
Red+ (Blue LED Cathode)	7	8	Blue+ (OH/Fan Fail/UID LED)
Pull up to +3.3 Stby	9	10	NIC2 Activity LED
Pull up to +3.3 Stby	11	12	NIC1 Activity LED
ID_UID_SW/3.3V Stby	13	14	HDD LED
3.3V	15	16	FP PWRLD
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.