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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

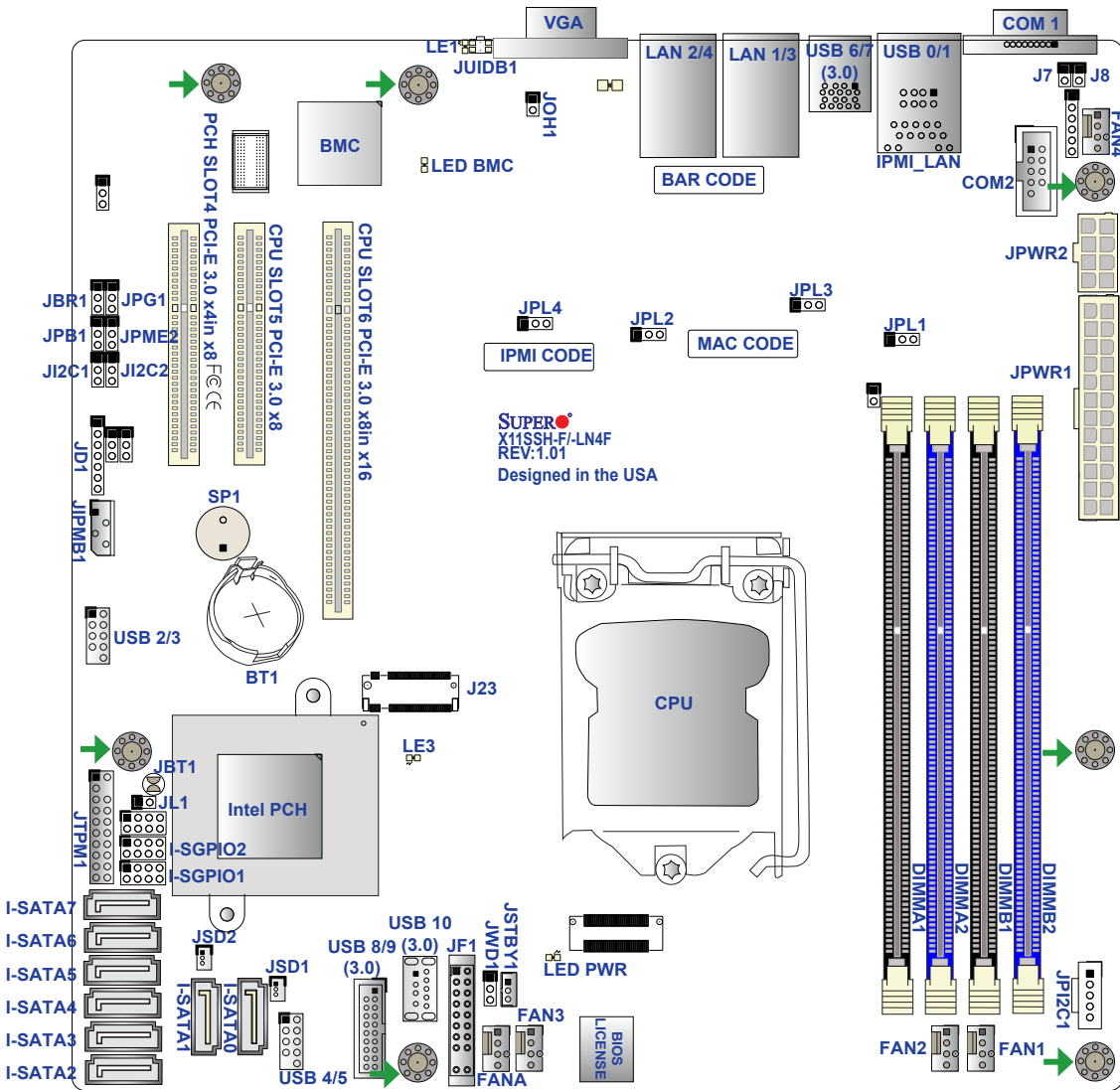
PACKAGE CONTENTS

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



Jumpers and Connectors

Jumpers		
Jumper	Description	Default Setting
J7	LAN4 LINK ACK (-LN4F only)	Off (Disabled)
J8	LAN3 LINK ACK (-LN4F only)	Off (Disabled)
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	Clear CMOS	See Chpt. 2 in user manual
JPC1/JPC2	SMB to PCI Slots	Pins 2-3 (Disabled)
JPB1	BMC Enable/Disable	Pins 1-2 (Enabled)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1-JPL4	LAN1-LAN4 Enable (LAN3/LAN4: for -LN4F only)	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JWD1	Watch Dog Enable	Pins 1-2 (Reset)

Connectors	
BT1	Onboard Battery
COM1/COM2	COM1/COM2 Port Headers
FAN1-FAN4, FANA	System/CPU Fan Headers
I-SATA0-I-SATA7	SATA 3.0 Connectors via Intel PCH (6Gb/s)
I-SGPIO 1/2	Serial_Link General Purpose I/O Connection Headers 1/2
IPMI_LAN	Dedicated IPMI Gigabit (RJ45) Port
J23	M.2 Socket
JD1	Speaker/Power LED Indicator
JF1	Front Panel Control Header
JIPMB1	4-pin External BMC i°C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JOH1	Overheat LED Indicator
JPPC1	Power i°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	Wake-On-LAN Enable Header
JTPM1	Trusted Platform Module/Port 80 Connector
JUIDB1	UID (Unit Identification) Switch
LAN1-LAN4	Gigabit (RJ45) LAN Ports (LAN3/LAN4: for -LN4F only)
PCI-E (PCH) Slot 4	PCI-Express 3.0 x4in x8 Slot
PCI-E (CPU) Slot 5	PCI-Express 3.0 x8 Slot
PCI-E (CPU) Slot 6	PCI-Express 3.0 x8in x16 Slot
SP1	Internal Speaker/Buzzer
USB 0/1	Back Panel USB 2.0 Ports
USB 2/3	Front Accessible USB 2.0 Headers
USB 4/5	Front Accessible USB 2.0 Headers
USB 6/7	Back Panel USB 3.0 Ports
USB 8/9	Front Accessible USB 3.0 Header
USB 10	USB 3.0 Type-A Header
VGA	Back Panel VGA Port

CPU Support

The X11SSH-F/-LN4F 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	State	Status
LE1	Rear UID LED	Blue: On	Unit Identified
LE3	PCI-E 3.0 M.2 LED	Green: Blinking	Active
LEDBMC	BMC Heartbeat LED	Green: Blinking	BMC Normal
LEDPOWER	Onboard Power LED	Green: Solid on	Power On

Memory Support

The X11SSH-F/-LN4F 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.

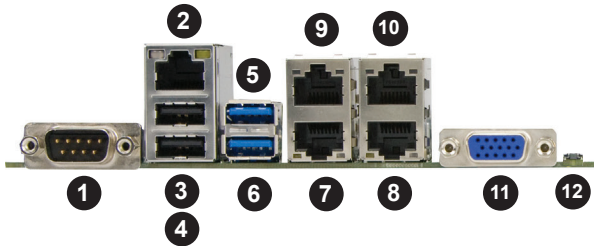
DIMM Memory Installation

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 location of the DIMM slots.

- 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.

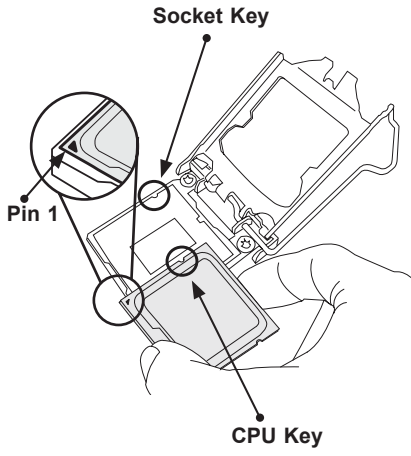
Recommended Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
		2GB	2GB	4GB
2GB	2GB	2GB	2GB	8GB
		4GB	4GB	8GB
4GB	4GB	4GB	4GB	16GB
		8GB	8GB	16GB
8GB	8GB	8GB	8GB	32GB
		16GB	16GB	32GB
16GB	16GB	16GB	16GB	64GB

Back Panel I/O Connectors

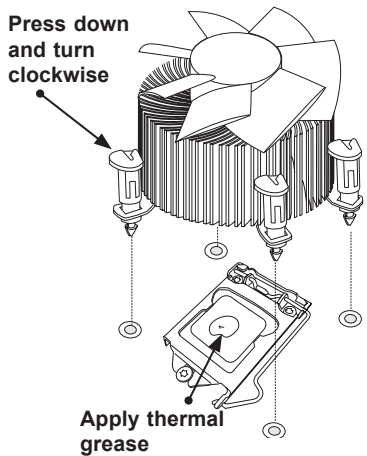


#	Description	#	Description	#	Description
1	COM1	5	USB7 (3.0)	9**	LAN3 (-LN4F only)
2	Dedicated IPMI LAN	6	USB6 (3.0)	10**	LAN4 (-LN4F only)
3	USB1 (2.0)	7	LAN1	11	VGA Port
4	USB0 (2.0)	8	LAN2	12	UID Switch

CPU Installation



Heatsink Installation



Front Panel Control (JF1)

	1	2	
Power Button {PWR	○	○	Ground
Reset Button {Reset	○	○	Ground
3.3 V	○	○	Power Fail LED
Red+ (Blue LED Cathode)	○	○	Blue+ (OH/Fan Fail)
3.3V Stby	○	○	NIC2 Activity LED
3.3V Stby	○	○	NIC1 Activity LED
ID_UID_SW/3.3V Stby	○	○	HDD LED
3.3V	○	○	FP PWRLD
X	○	○	X
NMI	○	○	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.