

SUPERMICR®
X11SCM-LN8F/-F and X11SCL-LN4F
Quick Reference Guide 1.0b

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

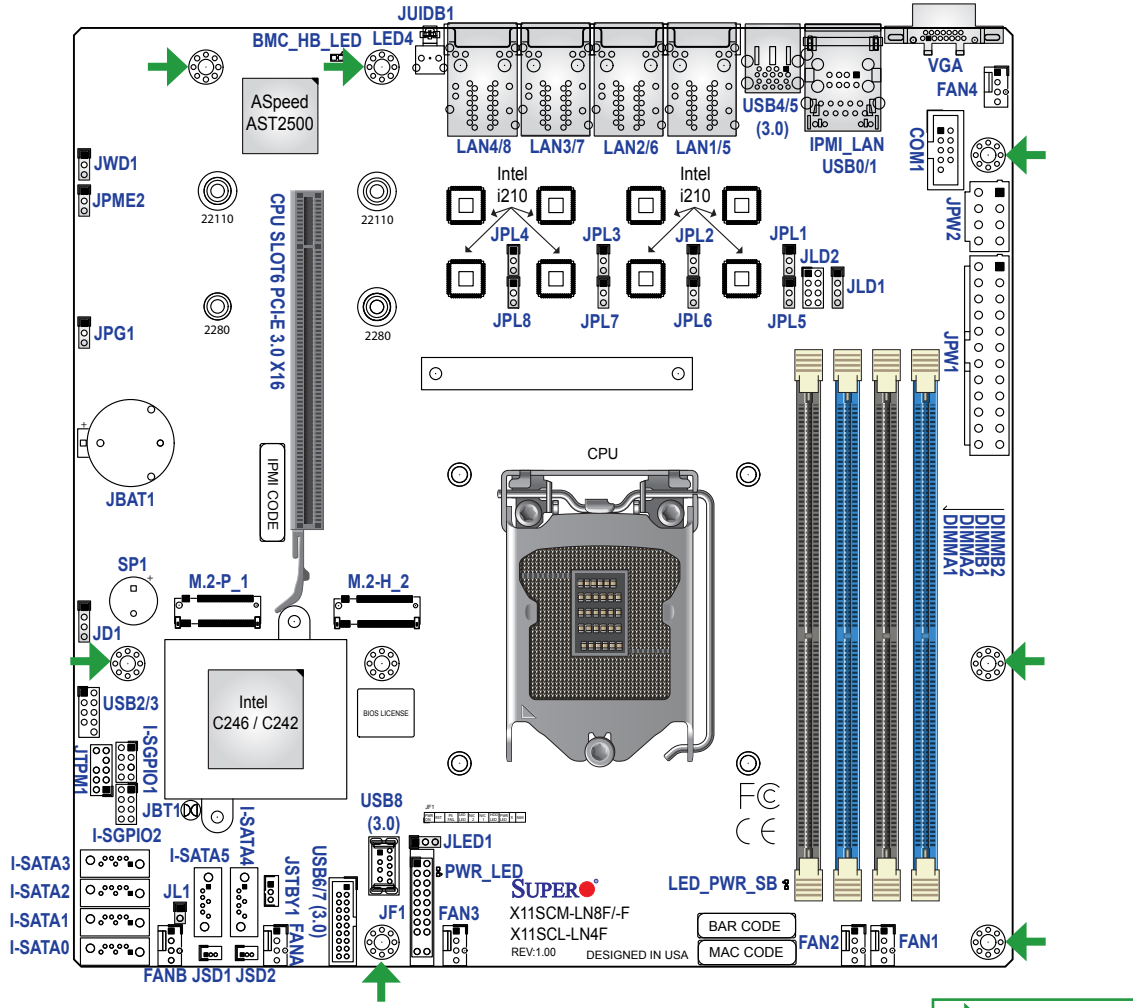
PACKAGE CONTENTS

- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- 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, Jumpers, and LED Indicators

Connectors	
Connector	Description
COM1	COM Header
FAN1 ~ FAN4	CPU/System Fan Headers
FANA, FANB	
IPMI_LAN	Dedicated IPMI LAN Port
I-SATA0 ~ I-SATA5	Intel® PCH SATA 3.0 Ports (with RAID 0, 1, 5, 10) I-SATA4 and I-SATA5 supports SuperDOM
I-SGPIO1, I-SGPIO2	Serial Link General Purpose I/O Headers
JBAT1	Onboard Battery
JD1	Speaker Header (Pins 1-4: Speaker; Pins 3-4: Onboard Buzzer)
JF1	Front Control Panel Header
JL1	Chassis Intrusion Header
JLED1	Onboard Power LED Header
JLD1	LAN3 ~ LAN4 Activity LED Connector
JLD2	LAN5 ~ LAN8 Activity LED Connector
JPW1	24-pin ATX Power Supply Connector
JPW2	8-pin Power Connector
JSD1, JSD2	SATA DOM Power Connectors
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	Unit Identifier (UID) Switch
LAN1 ~ LAN8	1GbE LAN Ports X11SCM-LN8F: LAN1 ~ LAN8 X11SCM-F: LAN1 ~ LAN2 X11SCL-LN4F: LAN1 ~ LAN4
M.2-H_2	M.2 Slot for PCI-E 3.0 x4 or SATA 3.0 x1 **X11SCM-LN8F/-F supports both; X11SCL-LN4F supports PCI-E 3.0 (Supports M-Key 2280 / 22110 and Intel Optane Memory)
M.2-P_1	M.2 Slot for PCI-E 3.0 x4 (X11SCM-LN8F/-F Only) (Supports M-Key 2280 / 22110 and Intel Optane Memory)
SLOT6	CPU PCI-E 3.0 x16 Slot
SP1	Onboard Buzzer
USB0/1	Back Panel Universal Serial Bus (USB) 2.0 Ports
USB2/3	Front Accessible USB 2.0 Header
USB4/5	Back Panel USB 3.1 Gen 1 Ports
USB6/7	Front Accessible USB 3.1 Gen 1 Header
USB8	USB 3.1 Gen 1 Type-A Header
VGA	VGA Port

Jumpers		
Jumper	Description	Default
JBT1	CMOS Clear	Open (Normal)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1 ~ JPL8	GLAN Enable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JWD1	Watchdog Timer	Pins 1-2 (Reset)

LED Indicators		
LED	Description	Status
BMC_HB_LED	BMC Heartbeat LED	Blinking Green: BMC Normal
LED4	Unit Identifier (UID) LED	Solid Blue: Unit Identified
LED_PWR_SB	Standby Power LED	Solid Green: Power Supply On
PWR_LED	Onboard Power LED	Solid Green: System On

CPU Support

The X11SCM-LN8F/-F and X11SCL-LN4F supports an Intel Xeon E-2200/2100, 9th/8th Generation Core i3, Pentium, and Celeron (Socket H4 - LGA 1151) series processor with a thermal design power (TDP) of up to 95W and eight cores.

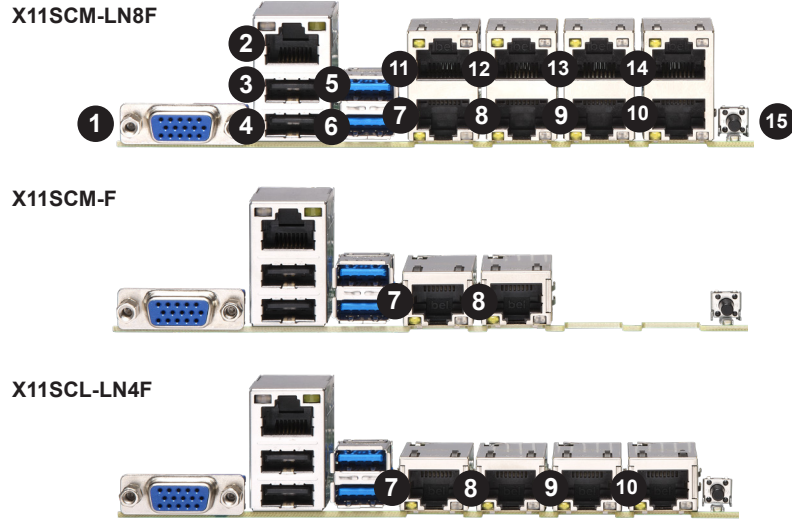
Memory Support and Installation

The X11SCM-LN8F/-F and X11SCL-LN4F supports up to 128GB of unbuffered (UDIMM) DDR4 (288-pin) ECC memory (2-DIMM per channel) with speeds of up to 2666MHz in four memory slots. See below for additional memory information.

- The blue slots must be populated first.
- Always use DDR4 memory 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. However, to achieve the best memory performance, a balanced memory population is recommended.

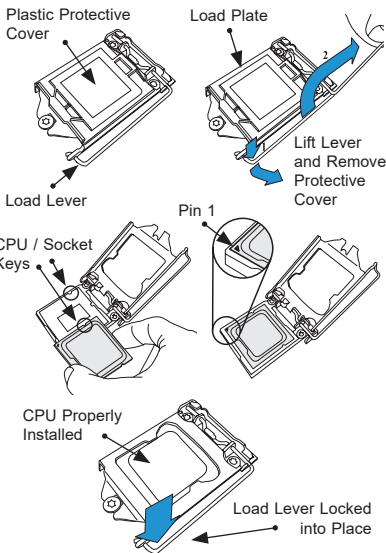
1 CPU, 4-DIMM Slots	
Number of DIMMs	Memory Population Sequence
1	DIMMB2
2	DIMMB2 / DIMMA2
3 (Unbalanced: Not Recommended)	DIMMB2 / DIMMA2 / DIMMB1
4	DIMMB2 / DIMMA2 / DIMMB1 / DIMMA1

Back Panel I/O Connectors

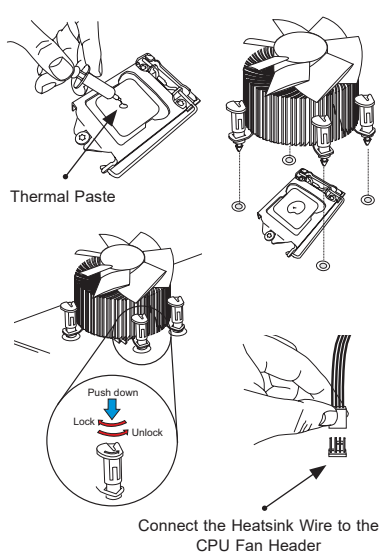


#	Description	#	Description	#	Description
1	VGA Port	6	USB4 (USB 3.1 Gen 1)	11	LAN5
2	Dedicated IPMI LAN	7	LAN1	12	LAN6
3	USB1	8	LAN2	13	LAN7
4	USB0	9	LAN3	14	LAN8
5	USB5 (USB 3.1 Gen 1)	10	LAN4	15	UID Switch and UID LED

CPU Installation



Heatsink Installation



Front Control Panel (JF1)

PWR	Power Button	1	2	Ground
Reset	Reset Button	3	4	Ground
3.3V	UID LED	5	6	Power Fail LED
3.3V Stby	UID SW	7	8	OH/Fan Fail LED
3.3V Stby		9	10	NIC2 Active LED
		11	12	NIC1 Active LED
		13	14	HDD LED
		15	16	PWR LED
		17	18	X
		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.

MNL-2075-QRG-10b

© 2019 Supermicro Computer Inc. All rights reserved. Reproduction of this document whether in part or in whole is strictly prohibited without Supermicro's written consent. All trademarks are property of their respective entities. All information provided is deemed accurate at the time of printing, however, it is not guaranteed.