SUPERMICRO®

X10SLM-F_X10SLL(-F/SF/S)
QUICK REFERENCE GUIDE REV. 1.0a

Motherboard Layout and Features

Super● X10SLM-F/X10SLL(-F/SF/S) Rev. 1.0

| IPMI Code |
| BAR Code |
| MAC Code |

= mounting hole
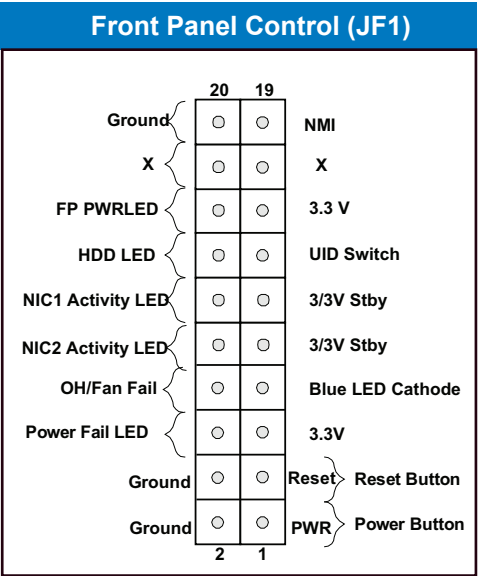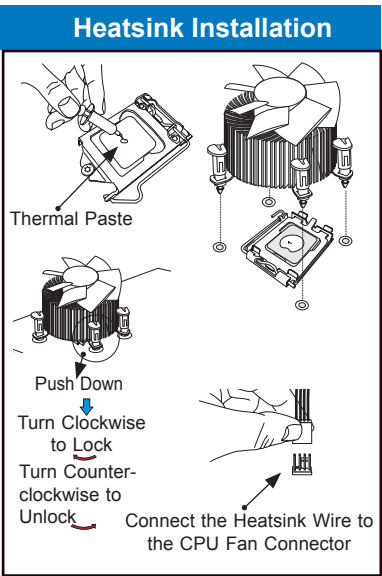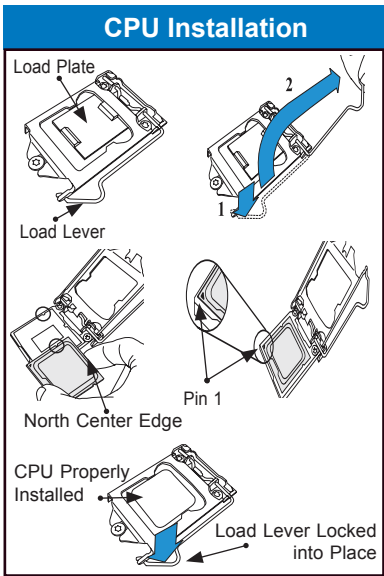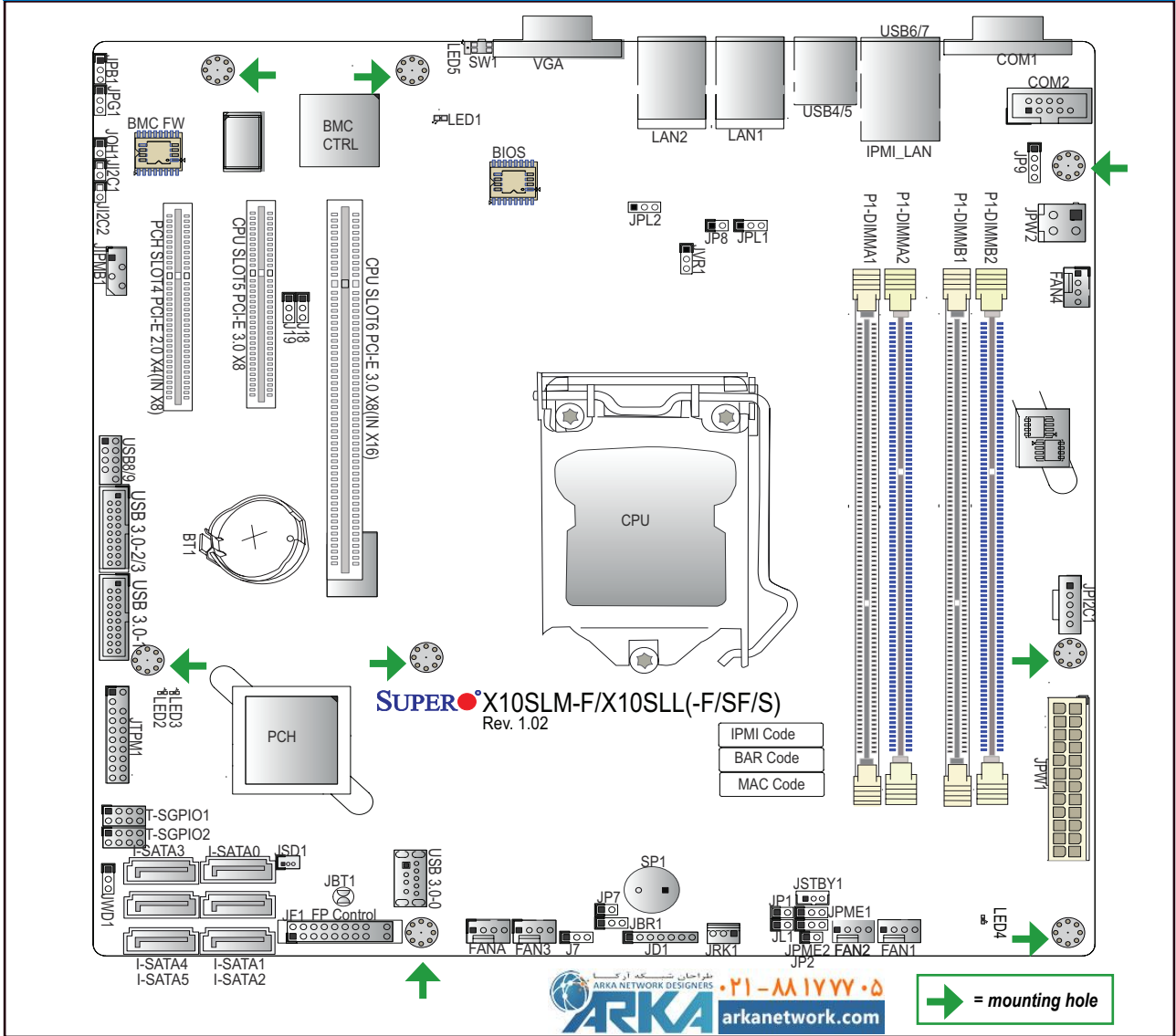
Jumpers, Connectors and LED Indicators

Jumpers

Jumper	Description	Default
JI²C1/JI²C2	SMB to PCI Slots	On (Enabled)
JPB1 (-F Models only)	BMC Enable	Pins 1-2 (Enabled)
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1/JPL2	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
JPME1	ME Recovery	Pins 1-2 (Normal)
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-Fan4, FanA	System/CPU Fan Headers
JD1	Speaker/Power LED Indicator
JF1	Front Panel Control Header
JL1	Chassis Intrusion Header
JIPMB1	4-pin External BMC I²C Header (for an IPMI Card)
JPI²C1	Power System Management Bus (Power SMB)
JPW1	24-pin ATX Main Power Connector (Required)
JPW2	+12V 4-pin CPU power Connector (Required)
JSD1	SATA DOM (Device_On_Module) Power Connector
JSTBY1	Wake-on-LAN Enable Header
JTPM1	Trusted Platform Module/Port 80 Connector
LAN1/LAN2	Gigabit (RJ45) Ports (LAN1/2)
(IPMI_)LAN (for -F Models)	IPMI_Dedicated Gigabit (RJ45) Port
SP1	Internal Speaker/Buzzer
I-SATA0-I-SATA5	(Intel PCH) Serial ATA (SATA 3.0/2.0) Ports 0-5 (Ref. Model Table on P. 1-4)
(CPU) Slot 6	PCI-Express 3.0 x8 in x16 Slot
(CPU) Slot 5	PCI-Express 3.0 x8 Slot
(PCH) Slot 4	PCI-Express 2.0 x4 in x8 Slot (X10SLM-F/x10SLL-F Only),
T-SGPIO 1/2	Serial_Link General Purpose I/O Connection Headers 1/2
USB 3.0-0 (USB0)	Front Accessible Vertical USB 3.0 Type A Header
USB 3.0-2/3 (USB2/3)	Front Accessible USB 3.0 Header 2/3 (for X10SLM-F Only)
USB 4/5, 6/7 (2.0)	Backpanel USB 2.0 Ports 4/5, 6/7 (USB 6/7: for X10SLM-F & X10SLL-F Only)
USB 8/9	Front Panel Accessible USB 2.0 Headers 8/9
VGA	Backpanel VGA Port

LED Indicators

LED	Description	Color/State	Status
LED1	BMC Heartbeat LED	Green: Blinking	BMC Normal
LED4	System Standby Power LED	Orange: Solid on	Power On

CPU Installation

Load Plate
Load Lever
Pin 1
North Center Edge
CPU Properly Installed
Load Lever Locked into Place

Heatsink Installation

Thermal Paste
Push Down
Turn Clockwise to Lock
Turn Counter-clockwise to Unlock
Connect the Heatsink Wire to the CPU Fan Connector

Front Panel Control (JF1)

	20	19	
Ground	○	○	NMI
X	○	○	X
FP PWRLED	○	○	3.3 V
HDD LED	○	○	UID Switch
NIC1 Activity LED	○	○	3/3V Stby
NIC2 Activity LED	○	○	3/3V Stby
OH/Fan Fail	○	○	Blue LED Cathode
Power Fail LED	○	○	3.3V
Ground	○	○	Reset Reset Button
Ground	○	○	PWR Power Button
	2	1	

Memory Support

The X10SLM-F_X10SLL-(F/SF/S) supports up to 32GB of Unbuffered ECC (UDIMM) DDR3 1600/1333 MHz in 4 memory slots.

Note: The X10SLL-S/-SF supports up to 16 GB of DDR3 memory in 2 DIMM modules.
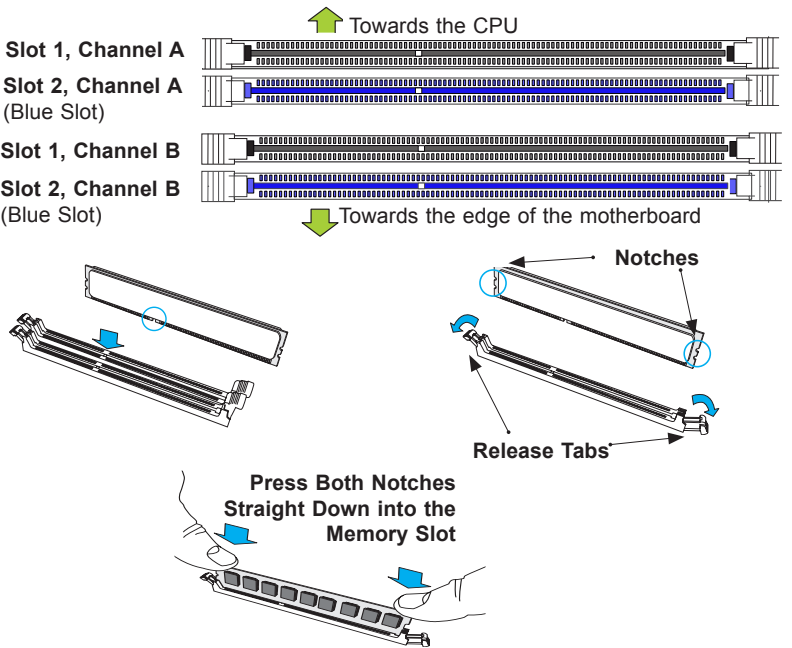
DIMM Memory Installation

Memory Population Guidelines

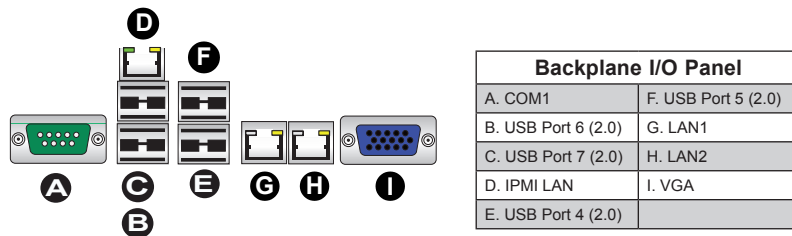Please follow the table below when populating the X10SLM-F_X10SLL-(F/SF/S).

DDR3 Unbuffered ECC (UDIMM) Memory				
DIMM Slots per Channel	DIMMs Populated per Channel	DIMM Type	POR Speeds	Ranks per DIMM (any combination)
2	1	Unbuffered DDR3	1333, 1600	Single Rank, Dual Rank
2	2	Unbuffered DDR3	1333, 1600	Single Rank, Dual Rank

Populating these DIMM modules with a pair of memory modules of the same type and same size will result in interleaved memory, which will improve memory performance.

Note: Insert the desired number of DIMMs into the memory slots, starting with the blue slots first, i.e., DIMMB2, DIMMA2, then DIMMB1 and DIMMA1. See the illustration below for DIMM slot locations. For the system to work properly, please use the memory modules of the same type and speed in the same motherboard.

Slot 1, Channel A
Slot 2, Channel A (Blue Slot)
Slot 1, Channel B
Slot 2, Channel B (Blue Slot)

Towards the CPU
Towards the edge of the motherboard

Notches
Release Tabs
Press Both Notches Straight Down into the Memory Slot

Back Panel I/O Connectors

Backplane I/O Panel	
A. COM1	F. USB Port 5 (2.0)
B. USB Port 6 (2.0)	G. LAN1
C. USB Port 7 (2.0)	H. LAN2
D. IPMI LAN	I. VGA
E. USB Port 4 (2.0)	

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