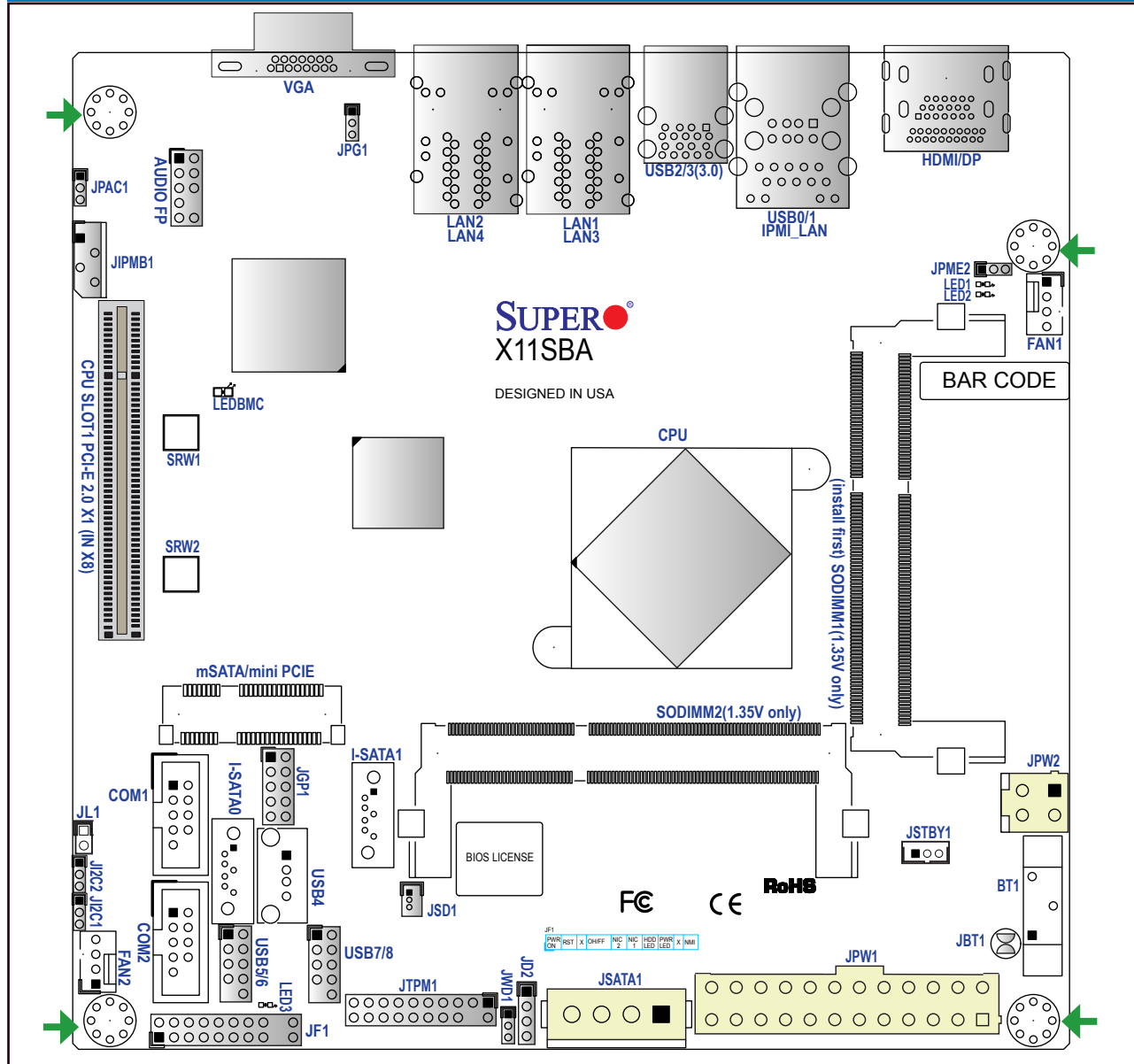




Motherboard Layout and Features



Jumpers, Connectors and LED Indicators

Jumpers		
Jumper	Description	Default Setting
JBT1	CMOS Clear	Open: Normal, Short: Clear CMOS
J12C1/J12C2	SMB to PCI-E Slots Enable/Disable	Pins 1-2 (Enabled)
JPAC1	Audio Enable	Pins 1-2 (Enabled)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

Connectors	
Connector	Description
AUDIO FP	Front Panel Audio Header
BT1	Onboard Battery
COM1, COM2	Serial COM Headers
FAN1, FAN2	System/CPU Fan Headers
HDMI/DP	Back Panel High Definition Multimedia Interface/DisplayPort
IPMI_LAN	IPMI Dedicated LAN Port
I-SATA0, I-SATA1	Intel® Serial ATA 3.0 Headers (I-SATA1 supports SuperDOM)
JGP1	General Purpose I/O Header
JD2	External Speaker Header
JF1	Front Control Panel Connector
JIPMB1	4-pin External BMC I2C Header
JL1	Chassis Intrusion
JPW1	24-pin ATX Power Connector
JPW2	4-pin 12V Power Connector (Optional Power Source when the 24-pin ATX power is not in use)
JSATA1	4-pin Connector for HDD use (to provide power from the motherboard to onboard devices)
JSD1	SATA DOM Power Connector
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module/Port 80 Connector
LAN1 ~ LAN4	Gigabit LAN (RJ45) Ports (-LN4F SKU has four LAN Ports, -F SKU has two LAN Ports)
mSATA/mini-PCI-E	mSATA/mini-PCI-E Connector
SLOT1	CPU Slot PCI-E 2.0 X1 (IN X8)
SRW1, SRW2	mSATA Holding Screws
USB0/1	Back Panel Universal Serial Bus (USB) 2.0 Ports
USB2/3	Back Panel USB 3.0 Ports
USB4	USB Type A Header
USB5/6, USB7/8	Front Panel USB 2.0 Headers
VGA	Back Panel VGA Port

LED Indicators			
LED	Description	Status	State
LED1	CPU Power LED	Blue: On	Power On
LED2	Standby Power LED	Green: On	Power On
LED3	Main Power LED	Green: On	Power On
LEDBMC	BMC Activity LED	Green: Blinking	BMC Normal

CPU Support

This motherboard supports an Intel® Pentium® Processor N3700 SoC (System on a Chip) in the FCBGA1170 format.

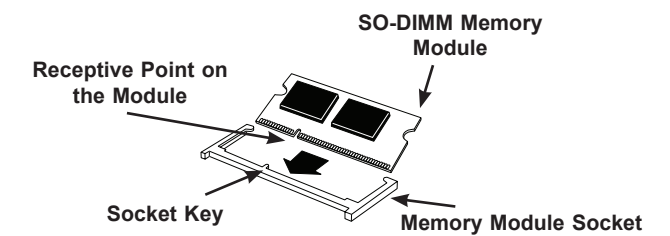
Memory Support

The X11SBA supports up to 8 GB of DDR3L (1.35, Low Voltage) Dual Channel, Non-ECC SO-DIMM up to 1600 MHz in two horizontal sockets. 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.

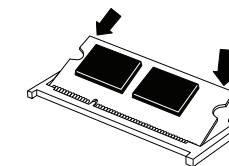
DIMM Memory Installation

Insert the desired number of SO-DIMMs into the memory slots, starting with SO-DIMM1, then SO-DIMM2.

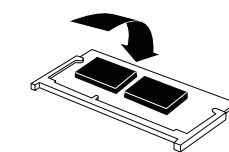
- Align the receptive point on the bottom of the SO-DIMM module against the key on the memory socket. Note the notches on the side of the SO-DIMM module and those on the socket to avoid causing damage.



- Line up the bottom of the SO-DIMM memory module with the edge of the horizontal socket.

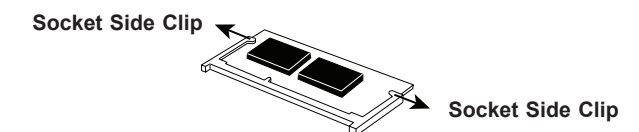


- Once they are lined up, push the memory module into the memory socket until the module is securely seated in the socket.

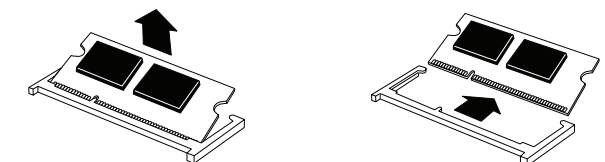


DIMM Memory Removal

- Use your thumbs to gently push the side clips on both ends of the socket away from the SO-DIMM module to release it from the locked position.

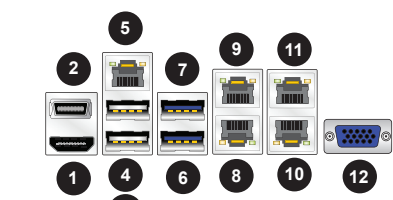


- Once the memory module is loosened from the socket, pull it upwards and outwards to remove it from the socket.



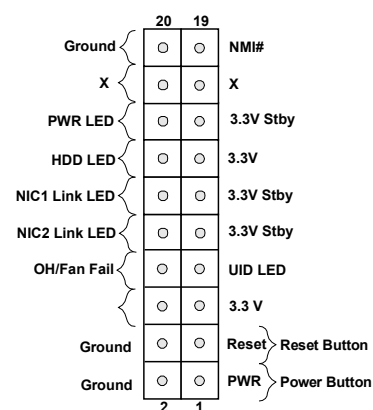
Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.

Back Panel I/O Connectors



#	Description	#	Description
1	HDMI	7	USB3 (3.0)
2	DisplayPort	8	LAN1
3	USB0	9	LAN3
4	USB1	10	LAN2
5	IPMI_LAN	11	LAN4
6	USB2 (3.0)	12	VGA Port

Front Control Panel (JF1)



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.