SUPERMICRO®
A3SEV-2C/4C-LN4
Quick Reference Guide 1.0b

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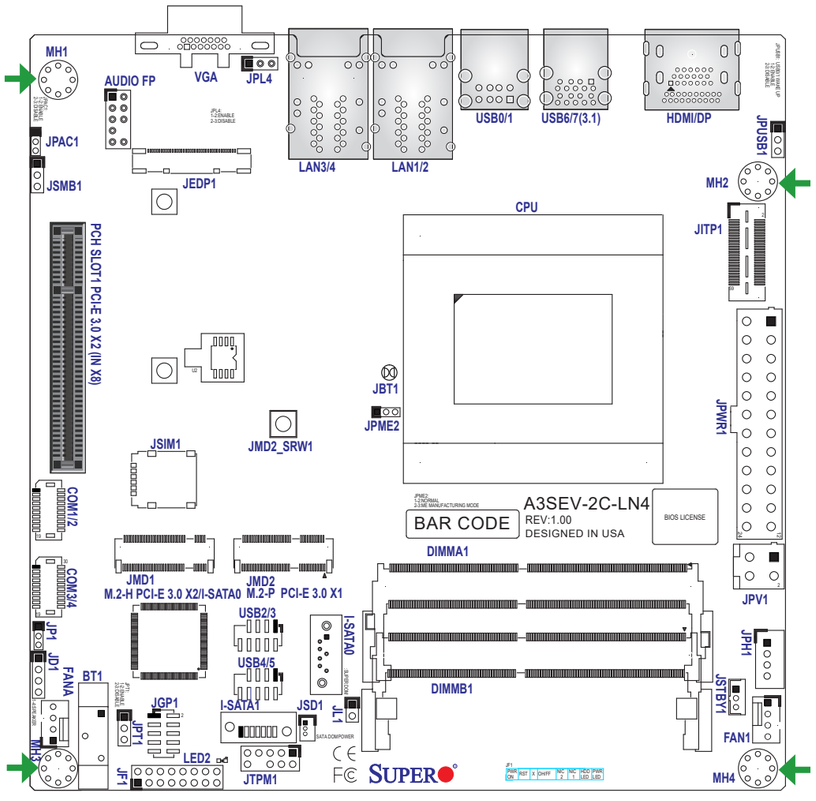
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One Supermicro Motherboard
- One Quick Refernce Guide
- Two SATA Cables

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.

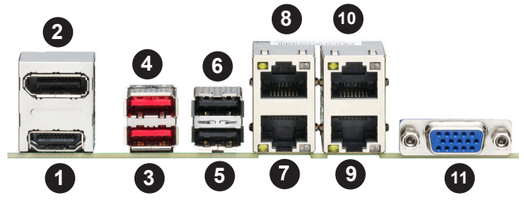
Motherboard Layout and Features



Front Control Panel (JF1)

	1	2	
Power Button	○	○	Ground
Reset Button	○	○	Ground
X	○	○	X
3.3V	○	○	OH/Fan Fail LED
3.3V Stby	○	○	NIC2 Active LED
3.3V Stby	○	○	NIC1 Active LED
3.3V	○	○	HDD LED
3.3V Stby	○	○	PWR LED
	15	16	

Back Panel I/O Connectors



#	Definition	#	Description	#	Description
1	HDMI	5	USB0	9	LAN3
2	DP++	6	USB1	10	LAN4
3	USB6 (3.1)	7	LAN1	11	VGA
4	USB7 (3.1)	8	LAN2		

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.

Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Description	Default
JBT1	CMOS Clear	Open: Normal
JP1	SIM Detection	Pins 1-2 (High Active)
JPAC1	Audio Enable/Disable	Pins 1-2 (Enabled)
JPL4	LAN4 Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Enable/Disable	Pins 1-2 (Enabled)
JPUSB1	USB0/1 Wake Up	Pins 1-2 (Enabled)

Connectors

Connector	Description
AUDIO FP	Front Panel Audio Header
BT1	Onboard battery
COM1/2, COM3/4	COM Headers
FAN1, FANA	System Fan Headers
HDMI/DP++	High Definition Multimedia Interface and DisplayPort
I-SATA0, I-SATA1	SATA 3.0 Ports (I-SATA0: SuperDOM)
JD1	Speaker/Buzzer (Pins 1-4: Speaker)
JEDP1	Extended DisplayPort
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JMD1	M.2 B-Key 2280/3042 (PCIe 3.0 x2/SATA/USB3.1) Slot *SATA mux with I-SATA0
JMD2	M.2 E-Key 2230 (PCIe 3.0 x1/USB2.0) Slot
JMD2_SRW1	M.2 Mounting Screw
JPH1	4-pin Power Connector (for HDD)
JPV1	4-pin 12V DC Power Connector
JPWR1	24-pin ATX Power Connector
JSD1	SATA DOM Power Connector
JSIM1	Nano SIM Card Slot
JSMB1	System Management Bus Header
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module (TPM)/Port80 Header
LAN1/2, LAN3/4	Gigabit Ethernet RJ45 Ports
SLOT1	PCH SLOT1 PCIe 3.0 x2 (IN x8) Slot
USB0/1	Back Panel USB 2.0 Ports
USB2/3, USB4/5	USB 2.0 Headers
USB6/7	Back Panel USB 3.1 Ports
VGA	VGA Port

*Due to the motherboard dimensions, there is a size limitation for the PCIe card. If you use the COM port and PCIe slot simultaneously, the recommended PCIe card size is x8 or smaller.

LED Indicators

LED	Description	Status
LED2	Power LED	Solid Green: Power On

Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

CPU Support

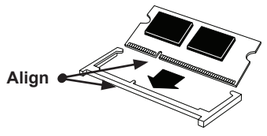
A3SEV-2C-LN4 supports an Intel® Atom x6211E 2 Core Processor.
A3SEV-4C-LN4 supports an Intel Atom x6425E 4 Core Processor.

Memory Support

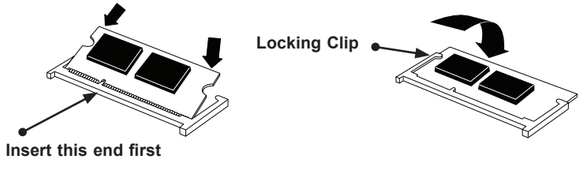
The A3SEV-2C/4C-LN4 motherboard supports up to 32GB of DDR4 Non-ECC SO-DIMM with speeds of up to 3200MT/s in two slots.

SO-DIMM Memory Installation

1. Position the SO-DIMM module's bottom key so it aligns with the receptive point on the slot.



2. Insert the SO-DIMM module vertically at about a 45 degree angle. Press down until the module locks into place. The side clips will automatically secure the SO-DIMM module, locking it into place.



SO-DIMM Removal

1. Push the side clips at the end of slot to release the SO-DIMM module. Pull the SO-DIMM module up to remove it from the slot.

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

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