

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

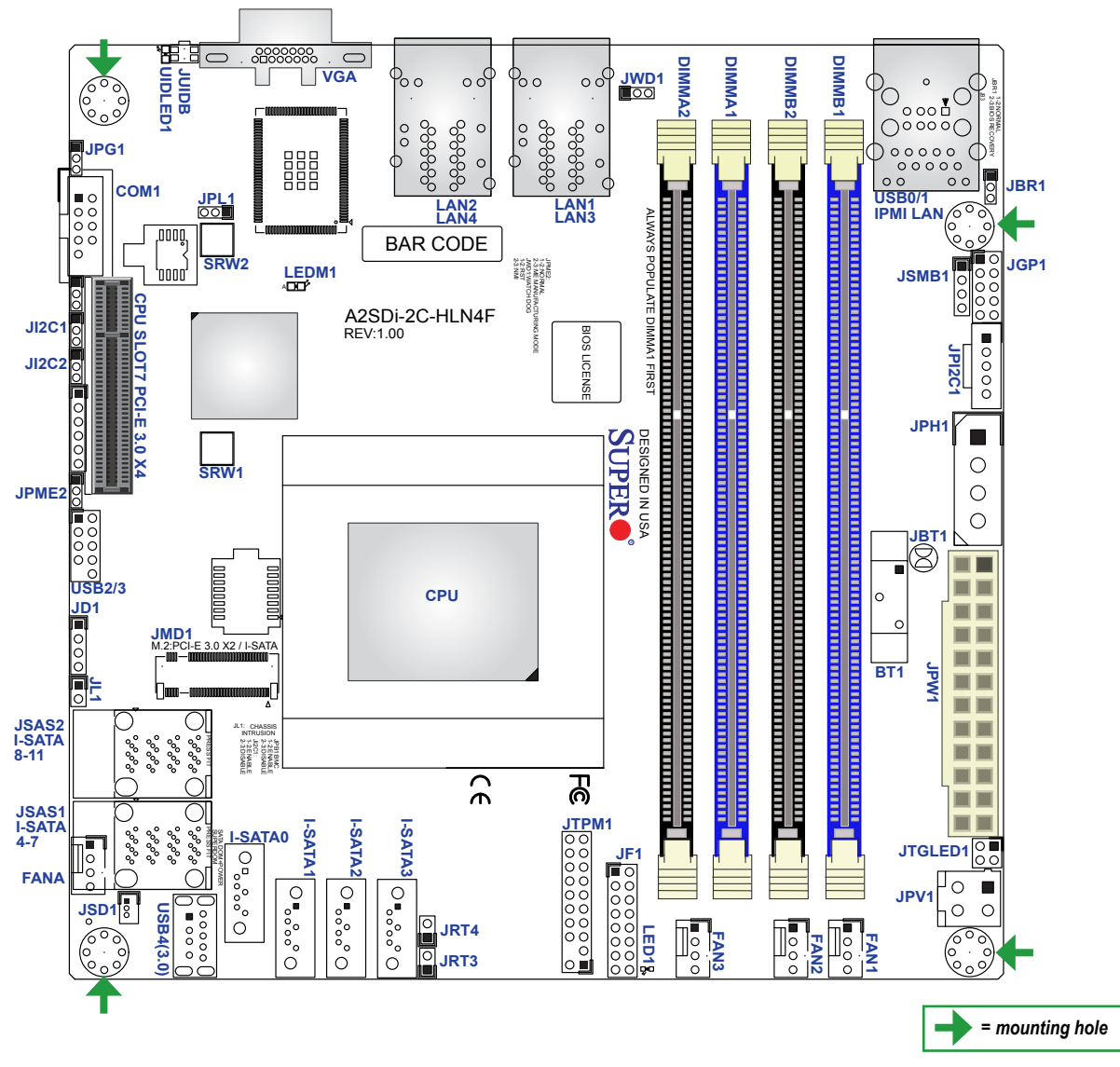
- DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:
- Manuals: <http://www.supermicro.com/support/manuals>
 - Drivers & Utilities: <https://www.supermicro.com/wftp/driver>
 - Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

- One (1) Supermicro Motherboard
- Four (4) SATA Cables
- One (1) I/O Shield
- One (1) Quick Reference Guide
- Two (2) Mini-SAS HD Cables (One for 2C/4C SKU)



Motherboard Layout and Features



Connectors and LED Indicators

Connectors	
Connector	Description
BT1	Onboard Battery
COM1	COM Header
FAN1 ~ FAN3, FANA	System/CPU Fan Headers (FAN1: CPU Fan)
IPMI LAN	Dedicated IPMI LAN Port
I-SATA0 ~ I-SATA3	SATA Ports 0-3 (I-SATA0 supports SuperDOM)
JD1	Speaker Header
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JMD1	M.2 PCI-E 3.0 X2 / I-SATA Slot (Not available on -2C model)
JPH1	4-pin Power Connector for HDD
JPI2C1	Power Supply SMBus I2C Header
JPV1	4-pin 12V DC Power Connector (To provide alternative power for special enclosure when the 24-pin ATX power is not in use.)
JPW1	24-pin ATX Power Connector
JRT3	Thermal Diode 1 Header
JRT4	Thermal Diode 2 Header
JSAS1	I-SATA Ports 4-7
JSAS2	I-SATA Ports 8-11 (Not available on -2C/-4C models)
JSD1	SATA DOM Power Connector
JSMB1	System Management Bus Header
JTGLED1	LAN3/LAN4 Activity LED
JTPM1	Trusted Platform Module/Port 80 Connector
LAN1 ~ LAN4	Gigabit Ethernet (RJ45) Ports
SLOT7	CPU PCI-E 3.0 X4 Slot
SRW1, SRW2	M.2 Holding Screws
UID	Unit ID Button
USB0/1	Back Panel USB 2.0 Ports
USB2/3	Front Accessible USB 2.0 Header
USB4	USB 3.0 Type A Header
VGA	VGA Port

LED Indicators			
LED	Description	Status	
LED1	Onboard Power LED	Solid Green: Power On	
LEDM1	BMC Heartbeat LED	Blinking Green: BMC Normal	
UIDLED1	UID LED	Solid Blue: Unit Identified	

Jumpers

Jumpers		
Jumper	Description	Default Setting
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	CMOS Clear	Open (Normal)
JI2C1/JI2C2	SMB to PCI-E Slots Enable/Disable	Pins 2-3 (Disabled)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1	LAN Enable/Disable	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode	Pins 1-2 (Normal)
JWD1	Watch Dog	Pins 1-2 (Reset)

CPU Support

The A2SDi-2C/4C/8C/8C+/12C/16C/16C+-HLN4F supports an Intel® Atom SoC 3000 series (FCBGA1310).

Memory Support

The A2SDi-2C-HLN4F supports up to 128GB RDIMM or 32GB ECC/Non-ECC UDIMM DDR4 in two memory slots.
 The A2SDi-4C/8C/8C+/12C/16C/16C+-HLN4F series support up to 256GB RDIMM or 64GB ECC/Non-ECC UDIMM DDR4 in four memory slots.

DIMM Memory Installation

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, DIMMA2, DIMMB2. The blue slots must be populated first. See the motherboard layout on the left for the location of the DIMM slots.

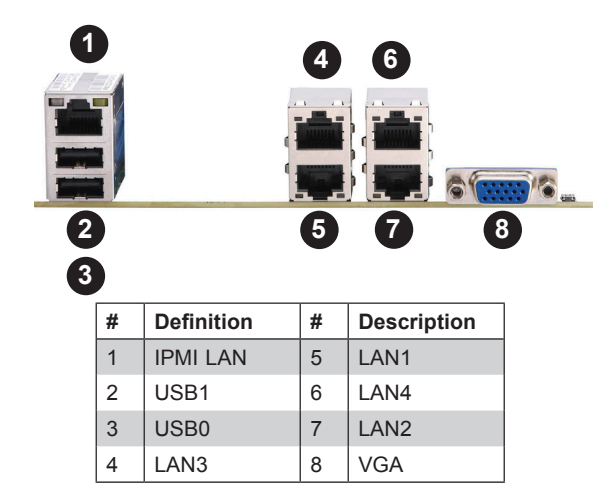
- Always use DDR4 DIMM modules of the same type, size, and speed. Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (1 or 3 modules installed). However, for best memory performance, install DIMM modules in pairs to activate memory interleaving.

Recommended Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB
16GB	16GB			32GB
16GB	16GB	16GB	16GB	64GB
32GB	32GB			64GB
32GB	32GB	32GB	32GB	128GB
64GB	64GB			128GB
64GB	64GB	64GB	64GB	256GB

Front Control Panel (JF1)

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

Back Panel I/O Connectors



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.