

SUPERMICR[®]
A3SPI-4C/8C-LN6PF/HLN4F
QUICK REFERENCE GUIDE 1.00

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DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:

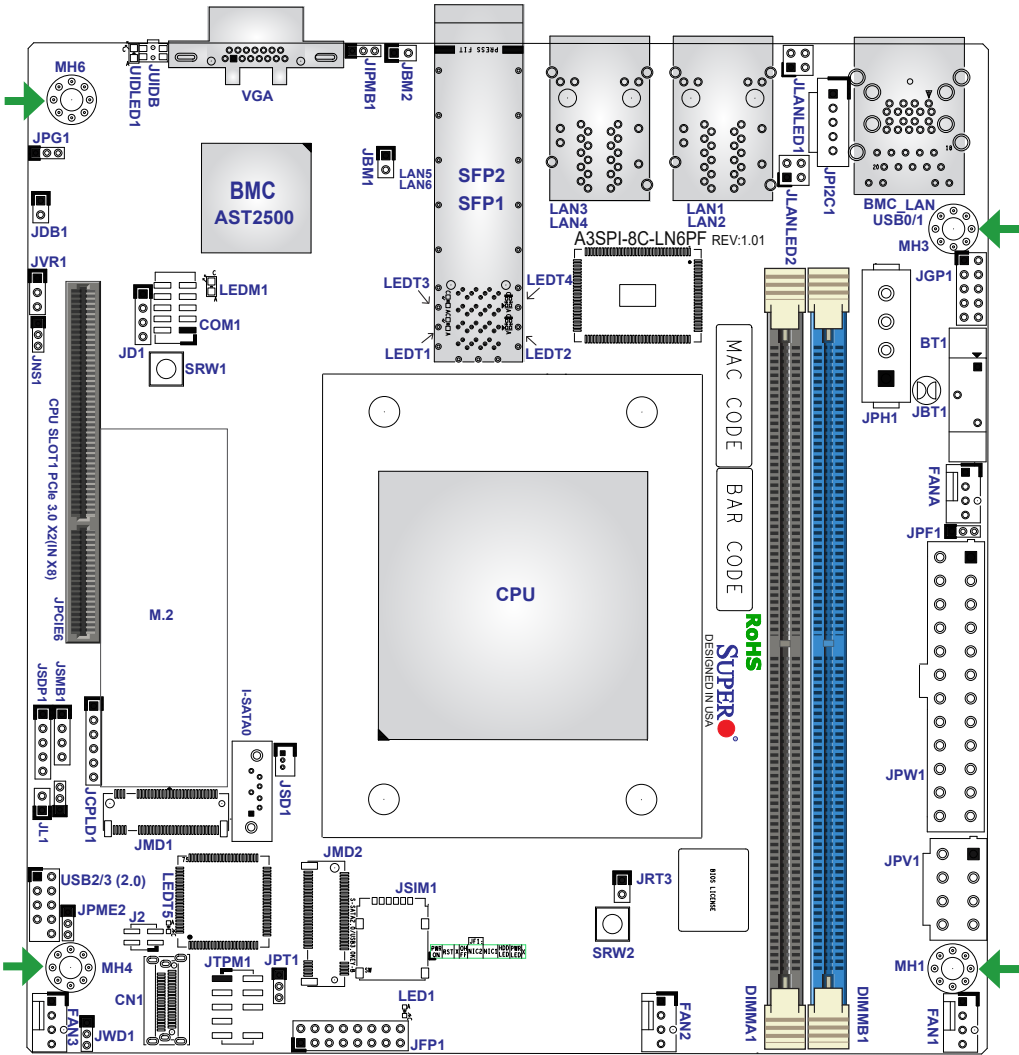
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

- One Supermicro Motherboard
- One Quick Reference Guide



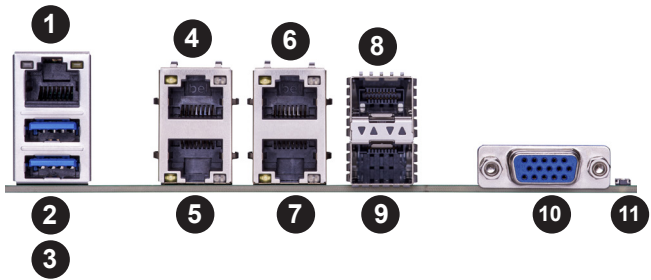
Motherboard Layout and Features



Front Control Panel (JFP1)

	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	BMC_LAN	5	LAN1 (Share NIC)	9	LAN5 (LN6PF)
2	USB1	6	LAN4	10	VGA
3	USB0	7	LAN3	11	UID Switch
4	LAN2	8	LAN6 (LN6PF)		

Jumpers and Connectors

Jumpers		
Jumper	Description	Default
JBM1	Disable IPMI Shared LAN	Pins 1-2 Open (Enabled)
JBM2	Disable IPMI Dedicated	Pins 1-2 Open (Enabled)
JBT1	CMOS Clear	Open: Normal
JDB1	COM Port or BMC Debug Port Select	Open: COM PORT
JNS1	OCuLink to SATA or PCIe Mode Selection	Pins 1-2 SATA (Default) Pins 2-3 NVMe
JPF1	Power Force On	Pins 1-2 (ATX Mode) Pins 2-3 (Force PS-ON) (Default)
JPG1	Onboard VGA Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Enable/Disable	Pins 1-2 (Enabled)
JWD1	Watch Dog	Pins 1-2 (Reset)

Connectors	
Connector	Description
BMC_LAN	BMC LAN Port
BT1	Onboard Battery
CN1	OCuLink Connector (to PCIe x4/SATA or NVMe)
COM1	COM Header
FAN1-FAN3, FANA	System Fan Headers
I-SATA0	SATA 3.0 Port (I-SATA0: SuperDOM)
JCPLD1	Complex-Programmable Logical Device (CPLD) header
JD1	Speaker Header
JFP1	Front Control Panel Header
JGP1	General Purpose I/O Header
JIPMB1	System Management Bus Header (for IPMI card)
JL1	Chassis Intrusion Header
JLANLED1	LAN1/LAN2 Activity LED Header (LN6PF) LAN3/LAN4 Activity LED Header (HLN4F) (LAN1 and LAN2 activity LED for HLN4F goes to JFP1)
JLANLED2	LAN3/LAN4 Activity LED Header (LN6PF)
JMD1	M.2 Slot (PCIe 3.0 x4, M-Key 2280) (For 4C SKU with C5315 CPU, only M.2 or OCUlink is available)
JMD2	M.2 Slot (PCIe 3.0 x2 / USB3.0 / SATA3, B-Key 3052) (*SATA mux with I-SATA0)
JPCIE6	PCIe 3.0 x2 (IN x8)
JPH1	4-pin HDD Power Connector
JPI2C1	Power Supply SMBus I2C Header (if the power supply has the PMbus 1x5 (male) pin)
JPV1	8-pin 12V DC Power Connector
JPW1	24-pin ATX Power Connector
JRT3	Thermal Diode Header
JSD1	SATA DOM Power Connector
JSDP1	Software Defined Pins
JSIM1	Nano SIM Card Slot
JSMB1	System Management Bus Header
JTPM1	Trusted Platform Module (TPM)/Port80 Header

Connectors and LED Indicators

Connectors	
JUIDB	UID Switch
JVR1	VRM Programming Header (Manufacturing Use Only)
LAN1-LAN4	Gigabit Ethernet RJ45 Ports
LAN5-LAN6	SFP LAN Ports (LAN5: SFP1, LAN6: SFP2)
SRW1, SRW2	M.2 Mounting Screws
USB0/1	Back Panel USB 3.0 Ports
USB2/3	USB 2.0 Headers
VGA	VGA Port

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

CPU Support

The A3SPI-4C/8C-LN6PF/HLN4F motherboard supports the Intel® Atom® SoC C5000 series (FCBGA2106).

Memory Support

The A3SPI-4C/8C-LN6PF/HLN4F motherboard supports up to 128GB ECC/non-ECC UDIMM/RDIMM DDR4 memory with speeds of up to 2400 MT/s for 4C and 2933 MT/S for 8C in two DIMM slots.

DIMM Memory Installation

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1.

- It is recommended to 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. However, for best memory performance, install DIMM modules in pairs to activate memory interleaving.

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

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.

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