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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

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

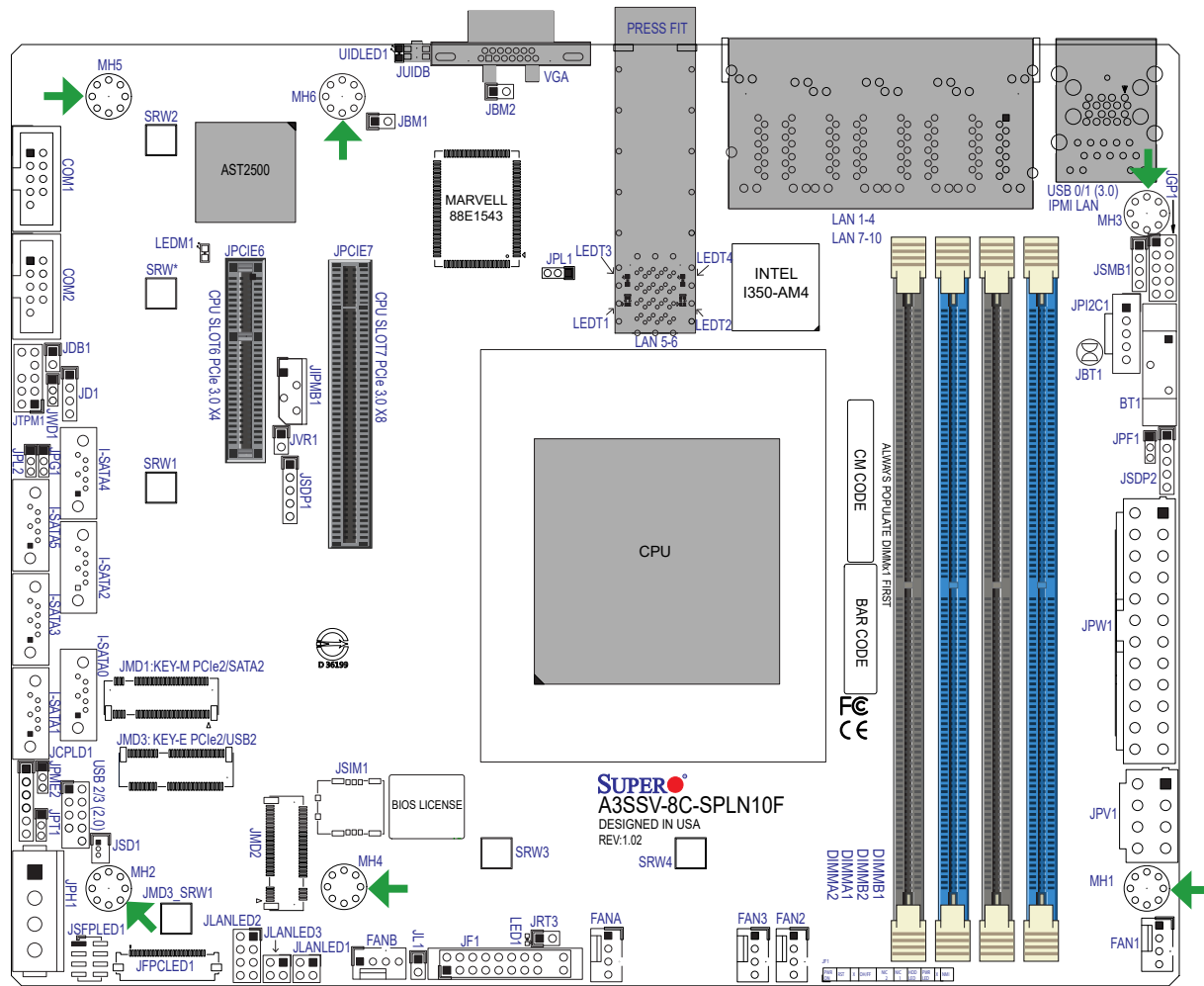
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

- One Supermicro Motherboard
- One Quick Reference Guide
- Six SATA Cables



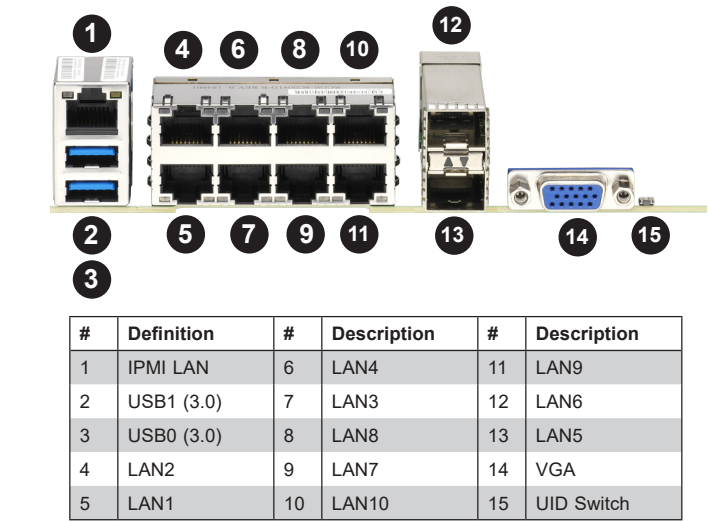
Motherboard Layout and Features



Front Control Panel (JF1)

	1	2			
Power Button	○	○	Ground		
Reset Button	○	○	Ground		
3.3V	○	○	PWR Fail		
Red+	○	○	Blue+ (OH/Fan Fail)		
3.3V SB	○	○	LAN2 Active LED		
3.3V SB	○	○	LAN1 Active LED		
ID_UID/3.3V SB	○	○	HDD LED		
3.3V	○	○	PWR LED		
X	○	○	X		
NMI	○	○	Ground		
	19	20			

Back Panel I/O Connectors



Jumpers and Connectors

Jumpers		
Jumper	Description	Default
JBM1	Disable IPMI Share LAN	Pins 1-2 Open (Enabled)
JBM2	Disable IPMI Dedicated	Pins 1-2 Open (Enabled)
JBT1	CMOS Clear	Open: Normal
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)
JPL1	LAN1-LAN4 Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	TPM Enable/Disable	Pins 1-2 (Enabled)
JWD1	Watch Dog Timer	Pins 1-2 (Reset by BMC)

Connectors	
Connector	Description
BT1	Onboard battery
COM1, COM2	COM Headers
FAN1-FAN3, FANA, FANB	CPU/System 4-pin Fan Headers (FAN1: CPU Fan)
IPMI_LAN	Dedicated IPMI LAN Port
I-SATA0-I-SATA5	Intel® PCH SATA 3.0 Ports (I-SATA0: SuperDOM)
JD1	Speaker/Buzzer Header (Pins 1-4: Buzzer)
JF1	Front Control Panel Header
JFPCLED1	LED Board Cable Connector for FPB-FPE300-LED10
JGP1	General Purpose I/O Header
JIPMB1	System Mangement Bus Header (for IPMI card)
JL1	Chassis Intrusion Header
JLANLED1	LAN3-LAN4 Port Activity LED Header
JLANLED2	LAN5-LAN8 LAN Port Activity LED Header
JLANLED3	LAN9-LAN10 Port Activity LED Header
JMD1	M.2 M-Key 2242/2280/22110 (PCIe 2.0 x4/SATA 2.0/USB 2.0) Slot
JMD2	M.2 B-Key 2242/3042/2280 (PCIe 2.0 x2/SATA 2.0/USB 3.0) Slot
JMD3	M.2 E-Key 2230 (PCIe 2.0 x1/USB 2.0) Slot
JPCIE6	CPU PCIe 3.0 x4 Slot
JPCIE7	CPU PCIe 3.0 x8 Slot
JPH1	4-pin Power Connector (for one HDD system)
JPI²C1	Power Supply SMBus I²C Header
JPV1	8-pin 12V DC Power Connector
JPW1	24-pin ATX Power Connector
JRT3	Thermal Diode 1
JSD1	SATA DOM Power Connector
JSDP1	Software-Defined Pins for LAN5-LAN6
JSDP2	Software-Defined Pins for LAN1-LAN4
JSFPLED1	LED Board Cable Connector for FPB-FPE300-LED10
JSIM1	Nano SIM Card Slot
J SMB1	System Management Bus Header
JTPM1	Trusted Platform Module (TPM)/Port80 Header
JUIDB	Unit Identifier Switch
JVR1	VRM I²C SMBus to CPU Header

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

Connectors and LED Indicators

Connectors	
LAN1-4, LAN7-10	Eight LAN 1G Base-T (Intel I350-AM4 & Marvell 88E1543) Ports
LAN5-6	Two LAN SFP28 25G Ports
MH1-MH6	Mounting Holes
SRW1-SRW4, SRW*	M.2 Holding Screws
USB0/1	Back Panel Universal Serial Bus (USB) 3.0 Ports
USB2/3	Front Accessible USB 2.0 Header
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 A3SSV-8C/16C/24C-SPLN10F motherboard supports an Intel® SoC P5000 series with up to 24 Cores and a thermal design power (TDP) of 83W.

Memory Support

The A3SSV-8C/16C/24C-SPLN10F motherboard supports up to 256GB of RDIMM and 64GB of ECC/Non-ECC UDIMM DDR4 memory with speeds of up to 2400MT/s for 8C, 2667MT/s for 16C, and 2933 MT/S for 24C.

DIMM Memory Installation

- When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, DIMMA2, DIMMB2.
- 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 (one or three 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

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

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.