SUPERMICRO®

A1SAM / A1SRM Motherboard Series

Quick Reference Guide Rev. 1.0a

Contact Information

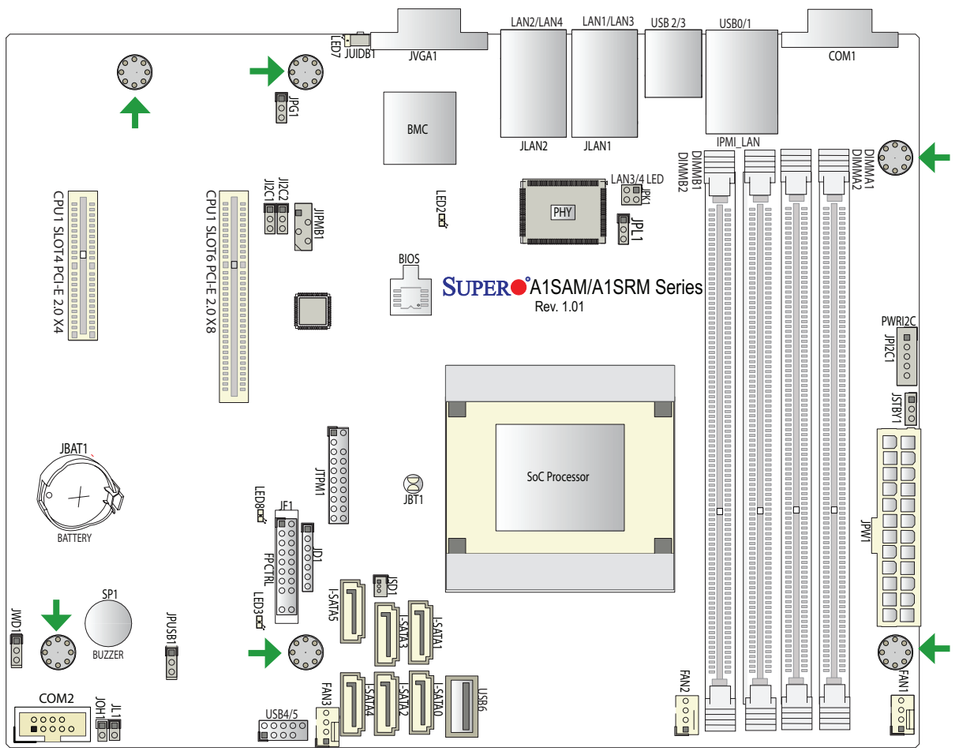
- www.supermicro.com (Email: support@supermicro.com)
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: ftp://ftp.supermicro.com
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents (Applies to individual-pack only)

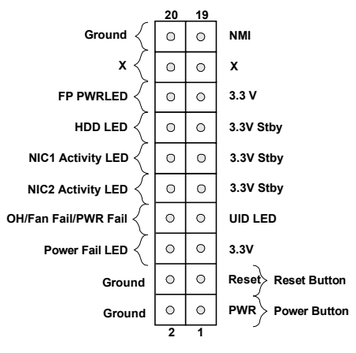
- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- One (1) I/O Shield
- One (1) Quick Reference Guide

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

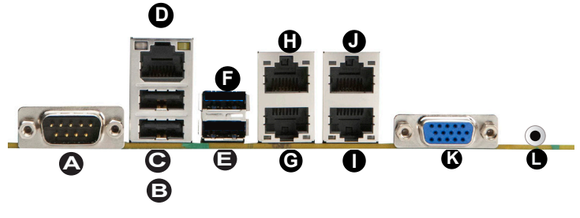


Front Panel Control (JF1)



Back Panel I/O Connectors

A. COM1	G. LAN1
B. USB Port 2.0-0	H. LAN3
C. USB Port 2.0-1	I. LAN2
D. IPMI LAN	J. LAN4
E. USB Port 2.0-2	K. VGA
F. USB Port 2.0-3	L. UID Switch



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	Off (Normal)
JI²C1/JI²C2	SMB to PCI-Exp. Slots	Pins 2-3 (Disabled)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1	Ethernet LAN Ports Enable	Pins 1-2 (Enabled)
JPUSB1	USB Wake_Up Enable	Pins 1-2 (Enabled)
JWD1	Watch Dog Enable	Pins 1-2 (Reset)
JD1	On Board Buzzer	Pins 6-7 (Enabled)

Connectors

Connector	Description
Battery (JBAT1)	Onboard Battery
COM1/COM2	COM1/COM2 Port Headers
FAN1-FAN3	System Cooling Fans
JD1	Power LED/Speaker Header(Pins 1-3: Power LED, Pins 6-7: Internal Buzzer, Pins 4-7: External Speaker)
JF1	Front Panel Control Header
JIPMB1	4-pin External SMbus I²C Header
JL1	Chassis Intrusion Header
JOH1	Overheat LED Header
JPI²C1	Power Supply System Management Bus (SMBus) I²C Header
JPK1	LAN3/LAN4 LED Indication Header
JPW1	24-pin ATX Power Connector
JSD1	SATA DOM (Device_On_Module) Power Connector
JSTBY1	5V Standby Power Connector
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	Unit Identifier (UID) Switch
LAN1/LAN3, LAN2/LAN4	Gigabit Ethernet (RJ45) Ports 1/3, 2/4
IPMI-LAN	IPMI-dedicated LAN for IPMI 2.0 interface
I-SATA0-I-SATA5	(Intel) Serial ATA Ports 0-5
Slot4	PCI-E 2.0 x 4 slot
Slot6	PCI-E 2.0 x 8 slot
SP1	Internal Speaker/Buzzer
USB 0/1, 2/3	Backpanel USB 2.0 Ports 0/1, 2/3
USB 4/5	Front Panel Accessible USB 2.0 Header USB (2.0) 4/5
USB 6	Type A USB6 Port (2.0)
VGA	Back Panel VGA Port

LED Indicators

LED	Description	Color/State	Status
LED2	IPMI/BMC Heartbeat	Green: Blinking	Normal
LED3	Power LED	Green: On	System Power On
LED7	UID Switch LED	Blue: On	Unit Identified
LED8	Overheat/PWR Fail/Fan Fail LED	Red: Solid on/Blinking	Solid On: Overheat, Blinking: PWR Fail or Fan Fail

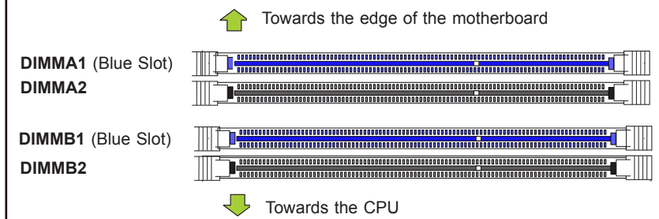
Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Memory Support

The A1SAM/A1SRM Series motherboard supports up to 64GB of DDR3 ECC or Non-ECC Unbuffered (UDIMM) 1600/1333 MHz in four (4) memory slots. Populating these DIMM slots with a pair of memory modules of the same type and same size will result in better memory performance.

Note: For memory optimization, use only DIMM modules that have been validated by Supermicro. For the latest memory updates, please refer to our website at http://www.supermicro.com/products/motherboard.

DIMM Population Guidelines



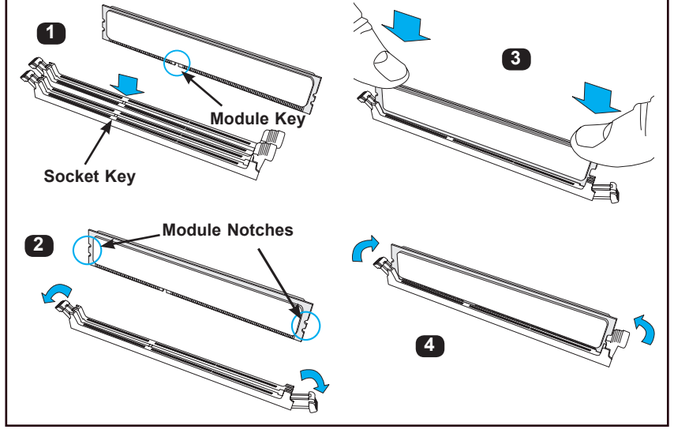
Memory Population Guidelines

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, DIMMA2 and DIMMB2.

- Always use DDR3 DIMM modules of the same size, type, and speed. Mixing memory modules of different types and speeds is not allowed.
- This motherboard only supports the following memory population configurations: a single module (DIMMA1), one pair, or two pairs.

Recommended Population (Balanced)

DIMMA1 Slot	DIMMB1 Slot	DIMMA2 Slot	DIMMB2 Slot	Total System Memory
4GB				4GB
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB
16GB	16GB	16GB	16GB	64GB



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

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