SUPERMICRO®
B4SA1-CPU
Quick Reference Guide 1.00

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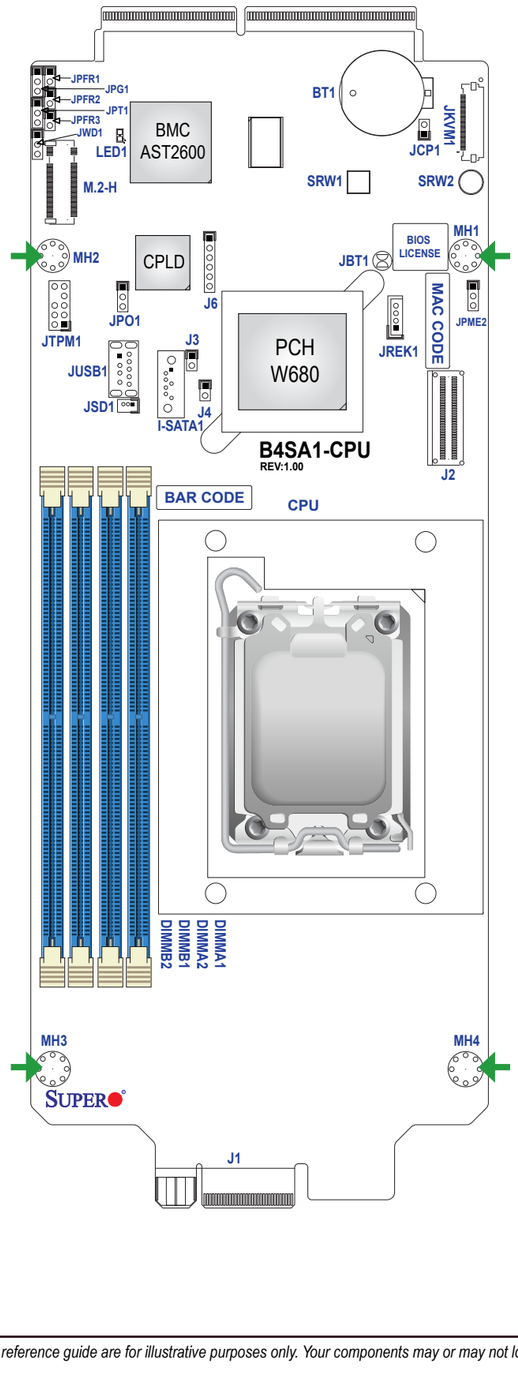
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

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



Jumpers, Connectors, and LED indicators

Jumpers

Jumper	Description	Default Setting
JBT1	Onboard CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1-2 (Enable)
JPT1	Onboard TPM 2.0 Enable/Disable	Pins 1-2 (Enable)
JWD1	Watchdog Timer	Pins 1-2 (Reset)

Connectors

Connector	Description
BT1	Onboard CMOS Battery
I-SATA1	SATA 3.0 Port
J1	Chassis Backplane Connector
J2	PCIe 4.0 x8 SlimSAS Slot
J6	CPLD JTAG Header
M.2-H	M.2 M-Key PCIe 4.0 or SATA 3.0 Connector (2280/22110)
JKVM1	VGA/USB Module Connector
JREK1	Intel RAID Key Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JSD1	SATA DOM Power Connector
JUSB1	Internal USB 3.2 Type-A Port
MH1 – MH4	Mounting Holes
SRW_1 – SRW_2	M.2 Mounting Holes

LED Indicators

LED	Description	Status
LED1	BMC Heartbeat LED	Blinking Green: BMC Normal

Memory and CPU Support

Memory Installation

The B4SA1-CPU motherboard supports up to 128GB of DDR5 ECC UDIMM memory with speeds of up to 4400 MT/s in four DIMM slots.

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

1. Insert DIMM modules in the following order: DIMMA2, DIMMB2, then DIMMA1, DIMMB1. For the system to work properly, use memory modules of the same type and speed.

CPU and Heatsink Installation

The B4SA1-CPU motherboard supports a 12th or 13th Generation Intel® Core™ i5/i7/i9 processor with up to 24 (8P+16E) cores and 125W TDP in an LGA 1700 socket.

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Note: Graphics shown in this quick reference guide are for illustrative purposes 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.