SUPERMICRO®

B4SC1-CPU

Quick Reference Guide 1.0a

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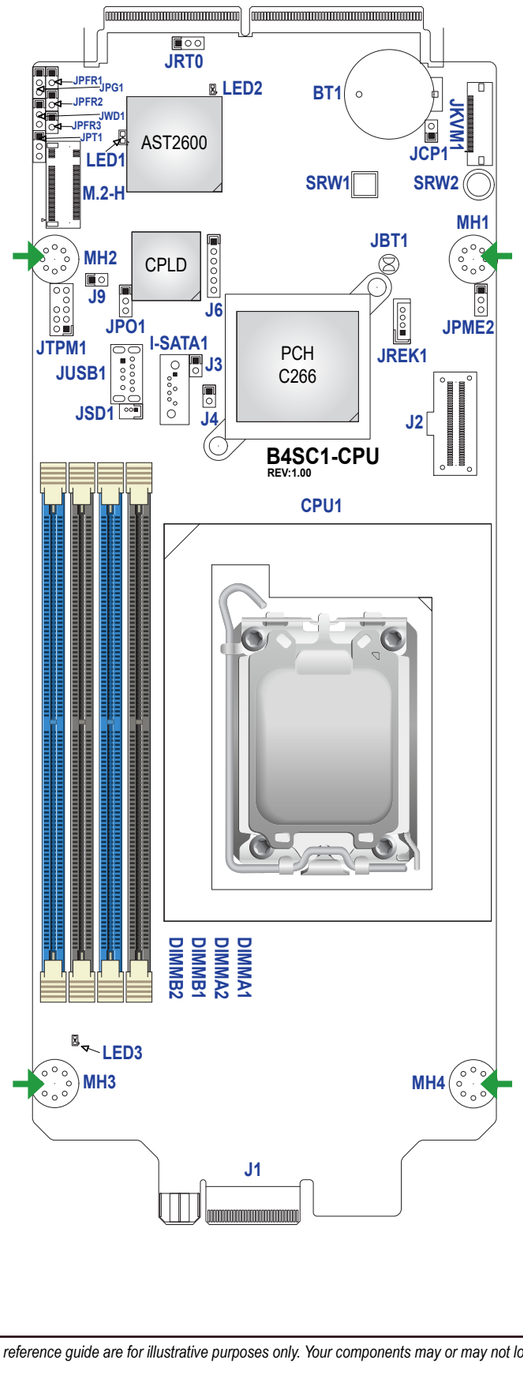
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

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



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.

Jumpers, Connectors, and LED indicators

Jumpers

Jumper	Description	Default Setting
JBT1	Onboard CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1–2 (Enable)
JPME2	Manufacturing Mode	Pins 1–2 (Normal)
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 Connector
J6	CPLD JTAG Header
JKVM1	VGA/USB Module Connector
JREK1	Intel RAID Key Header
JSD1	SATA DOM Power Connector
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUSB1	Internal USB 3.2 Gen 1 Type-A Port
M.2-H	M.2 M-Key PCIe 4.0 or SATA 3.0 Connector (2280/22110)
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
LED2	BMC Error LED	Red: Power Fail or FAN Fail
LED3	DDR5 PWRFAIL LED	Red: Power Fail

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

Memory and CPU Support

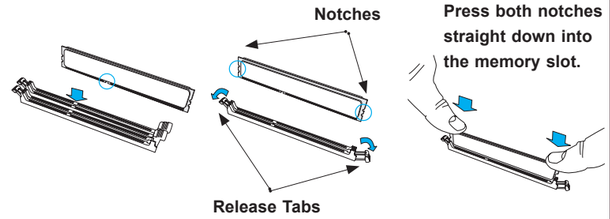
Memory Installation

The B4SC1-CPU motherboard supports up to 128 GB of DDR5 ECC UDIMM memory with speeds of up to 4400 MT/s in four DIMM slots.

Number of DIMMs	Memory Population Sequence
1	DIMMB2 DIMMA2
2	DIMMB2 / DIMMB1 DIMMB2 / DIMMA2 DIMMA2 / DIMMA1
3	DIMMA2 / DIMMB1 / DIMMB2 DIMMA1 / DIMMA2 / DIMMB2
4	DIMMB2 / DIMMA2 / DIMMB1/ DIMMA1

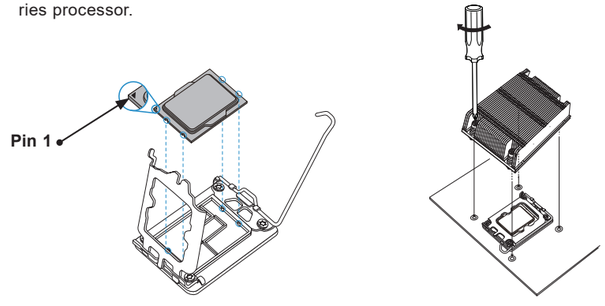
DIMM Type	Slots per Channel	Speed (MT/s)	DIMM Slots
1R UDIMM	2 SPC	4000	DIMMB1 / DIMMB2 DIMMA1 / DIMMA2
2R UDIMM	2 SPC	3600	DIMMA2 / DIMMB1 / DIMMB2 DIMMA1 / DIMMA1 / DIMMB2 DIMMA1 / DIMMA2 / DIMMB1 / DIMMB2
1R UDIMM	1 SPC	4400	DIMMB2 DIMMA2
2R UDIMM	1 SPC	4400	DIMMA2 / DIMMB2

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 B4SC1-CPU motherboard supports an Intel® Xeon® 6300-series/E-2400 Series processor with up to eight cores and a thermal design power (TDP) of up to 95 W in an LGA 1700 socket. BIOS 2.0 or above is required to support the Intel Xeon 6300-series processor.



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

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MNL-2605-QRG-10a