SUPERMICRO®

B3SD1-20C-25G

QUICK REFERENCE GUIDE 1.00

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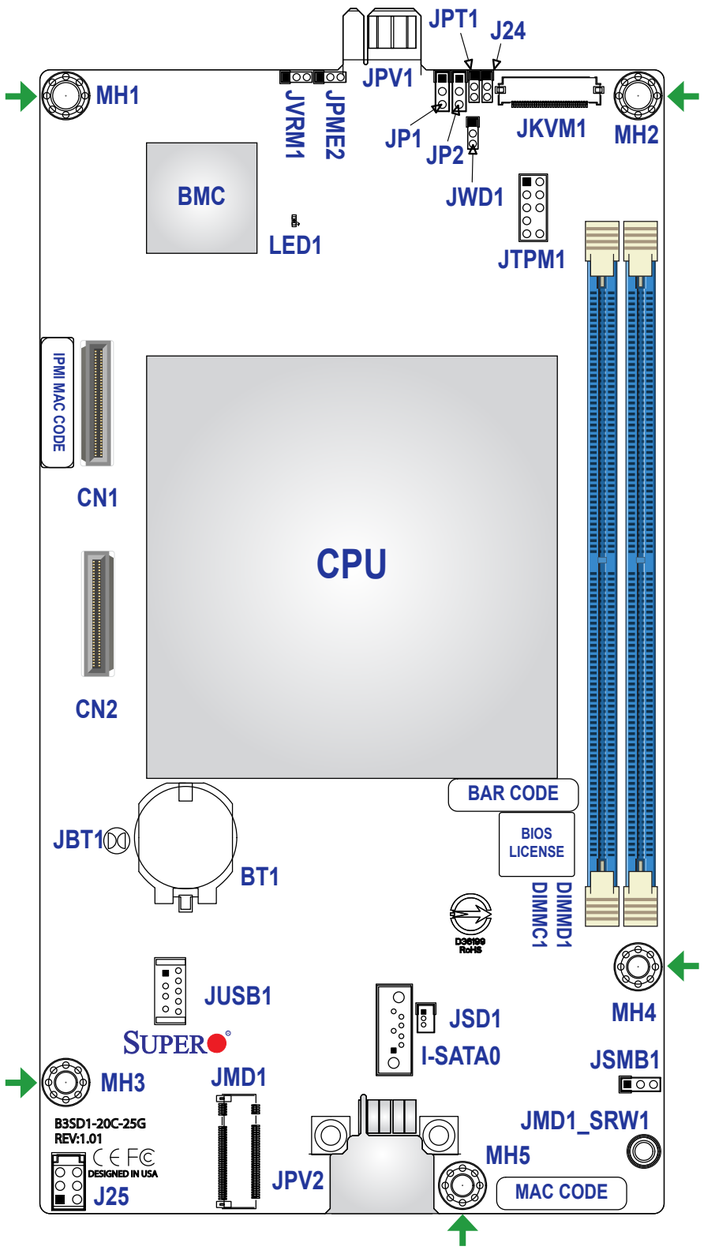
FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:

- 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



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)
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
CN1	MCIO Connector
CN2	MCIO Connector
I-SATA1	SATA DOM Port
JKVM1	VGA/USB Module Connector
JMD1_SRW1	M.2 Mounting Hole for M.2 2280
JPV1	Gold Finger to JPV2 of Node 1 or Backplane through AOM-BPNIO-GFR for Power Delivery
JPV2	12 V Power Straddle Connector to Node 2
JSD1	SATA DOM Power Connector
JSMB1	System Management Bus Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUSB1	Internal USB 3.0 Type-A Port for Debugging
J25	Power Connector for HDD Backplane
M.2-HC	M.2 M-Key PCIe 4.0 or SATA 3.0 Connector (2280)
MH1 – MH5	Motherboard Mounting Holes

LED Indicators

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

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

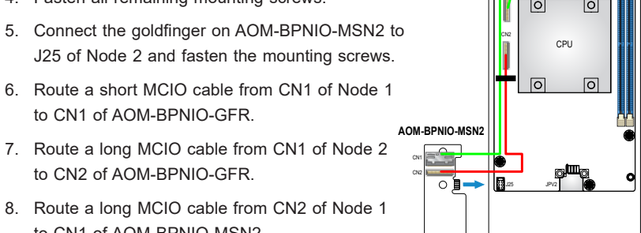
Memory and CPU Support

CPU Support

The B3SD1-20C-25G motherboard supports an Intel® Xeon® D-2796NT processor in a FCBGA 2579 socket with up to 20 cores and a TDP of up to 120 W.

Memory Support

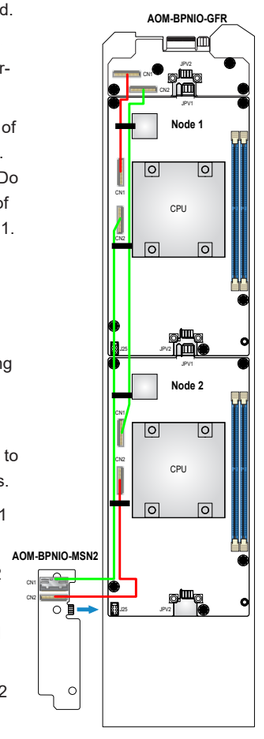
Number of DIMMs	Memory Population Sequence
1	DIMMC1 DIMMD1
2	DIMMC1 / DIMMD1



Assembling a Dual Node MicroBlade

Two MicroBlade nodes can be assembled to create a dual node configuration in one MicroBlade sled.

1. Install a MicroBlade in the center of the MicroBlade sled and fasten all screws of this motherboard. This MicroBlade is Node 2.
2. Connect JPV2 of another MicroBlade to JPV1 of Node 2 by sliding the MicroBlade into the sled. Fasten the mounting screws closest to JPV2. Do not fasten the mounting screws near the end of the MicroBlade sled. This MicroBlade is Node 1.
3. Connect JPV2 of AOM-BPNIO-GFR to JPV1 of Node 1 by slightly angling Node 1 upwards and sliding JPV2 of AOM-BPNIO-GFR onto JPV1 of Node 1. Ensure AOM-BPNIO-GFR is not attached to JPV1 of Node 1 at a large tilting angle.
4. Fasten all remaining mounting screws.
5. Connect the goldfinger on AOM-BPNIO-MSN2 to J25 of Node 2 and fasten the mounting screws.
6. Route a short MCIO cable from CN1 of Node 1 to CN1 of AOM-BPNIO-GFR.
7. Route a long MCIO cable from CN1 of Node 2 to CN2 of AOM-BPNIO-GFR.
8. Route a long MCIO cable from CN2 of Node 1 to CN1 of AOM-BPNIO-MSN2.
9. Route a short MCIO cable from CN2 of Node 2 to CN2 of AOM-BPNIO-MSN2.
10. Use cable ties to secure the MCIO cables.



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

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