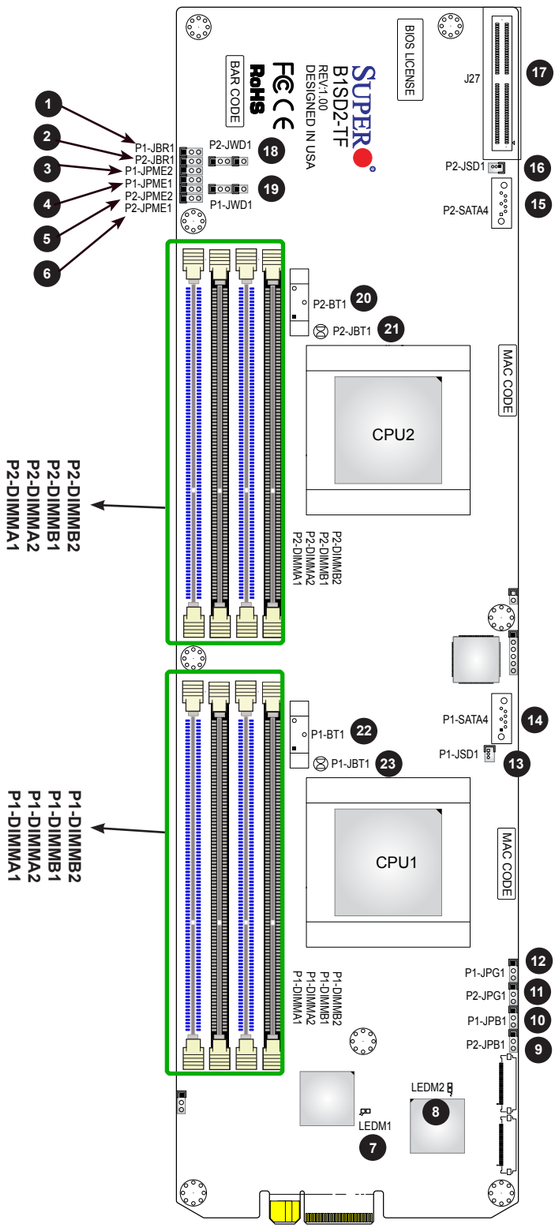
SUPERMICRO®
B1SD2-TF
Quick Reference Guide 1.00

Contact Information
- Website: www.supermicro.com
- General Information: marketing@supermicro.com
- Technical Support: support@supermicro.com
- Phone: +1 (408) 503-8000, Fax: +1 (408) 503-8008

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: ftp://ftp.supermicro.com/CDR_Images/CDR-B1-UP/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One (1) Supermicro Motherboard
- Two (2) SATA Cables
- One (1) Quick Reference Guide

Motherboard Layout and Features



= mounting hole

Note: Item numbers are shown in counterclockwise order

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 & LED Indicators

Jumpers

Jumper	Item #	Description	Default
P1-JBR1	1	BIOS Recovery for Node 1	Pins 1-2 (Normal)
P2-JBR1	2	BIOS Recovery for Node 2	Pins 1-2 (Normal)
P1-JBT1	23	CMOS Clear for Node 1	Open (Normal) Short (Clear CMOS)
P2-JBT1	21	CMOS Clear for Node 2	Open (Normal) Short (Clear CMOS)
P1-JPG1	12	VGA Enable for Node 1	Pins 1-2 (Enabled)
P2-JPG1	11	VGA Enable for Node 2	Pins 1-2 (Enabled)
P1-JPB1	10	BMC Enable/Disable for Node 1	Pins 1-2 (Enabled)
P2-JPB1	9	BMC Enable/Disable for Node 2	Pins 1-2 (Enabled)
P1-JPME1	4	ME Recovery for Node 1	Pins 1-2 (Normal)
P1-JPME2	3	Manufacturing Mode for Node 1	Pins 1-2 (Normal)
P2-JPME1	6	ME Recovery for Node 2	Pins 1-2 (Normal)
P2-JPME2	5	Manufacturing Mode for Node 2	Pins 1-2 (Normal)
P1-JWD1	19	Watch Dog Enable for Node 1	Pins 1-2 (Reset)
P2-JWD1	18	Watch Dog Enable for Node 2	Pins 1-2 (Reset)

Connectors

Connector	Item #	Description
P1-BT1	22	Onboard Battery for Node 1
P2-BT1	20	Onboard Battery for Node 2
J27	17	HDD Backplane Connector
P1-JSD1	13	SATA DOM Power for Node 1
P2-JSD1	16	SATA DOM Power for Node 2
P1-SATA4	14	SATA Port for Node 1
P2-SATA4	15	SATA Port for Node 2

LED Indicators

LED	Item #	Description	Color/State	Status
LEDM1	7	BMC Heartbeat LED for Node 1	Green: Blinking	BMC: Normal
LEDM2	8	BMC Heartbeat LED for Node 2	Green: Blinking	BMC: Normal

CPU Support

The B1SD2-TF motherboard supports two Intel® Xeon D SoC (BGA package).

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

Memory Support

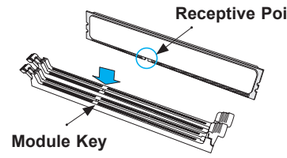
The B1SD2-TF motherboard supports up to 128GB of DDR4 ECC VLP RDIMM memory of speeds up to 2400MHz in eight (8) slots. Populating these DIMM modules with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.

DIMM Memory Installation

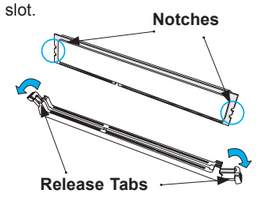
When installing memory modules, the DIMM slots should be populated in the following order: P1-DIMMA1, P1-DIMMB1, P1-DIMMA2, P1-DIMMB2, then P2-DIMMA1, P2-DIMMB1, P2-DIMMA2, P2-DIMMB2. See the motherboard layout on the left for the location of the DIMM slots.

- Always use DDR4 DIMM modules of the same size, type and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.

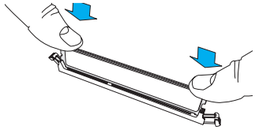
1. Align the key of the DIMM module with the receptive point on the memory slot.



2. Align the notches on both ends of the module against the receptive points on the ends of the slot.



3. Use both thumbs to press the notches on both ends of the module straight down into the slot until the module snaps into place. Then press the release tabs to the lock positions to secure the DIMM module into the slot.



Please follow the table below when populating the DIMM slots.

Recommended Population for P1 and P2 DIMM Slots

P1/P2-DIMMA1	P1/P2- DIMMB1	P1/P2- DIMMA2	P1/P2- DIMMB2	Total System Memory
2GB	2GB			4GB
2GB	2GB	2GB	2GB	8GB
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

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

MNL-1736-QRG 1.00