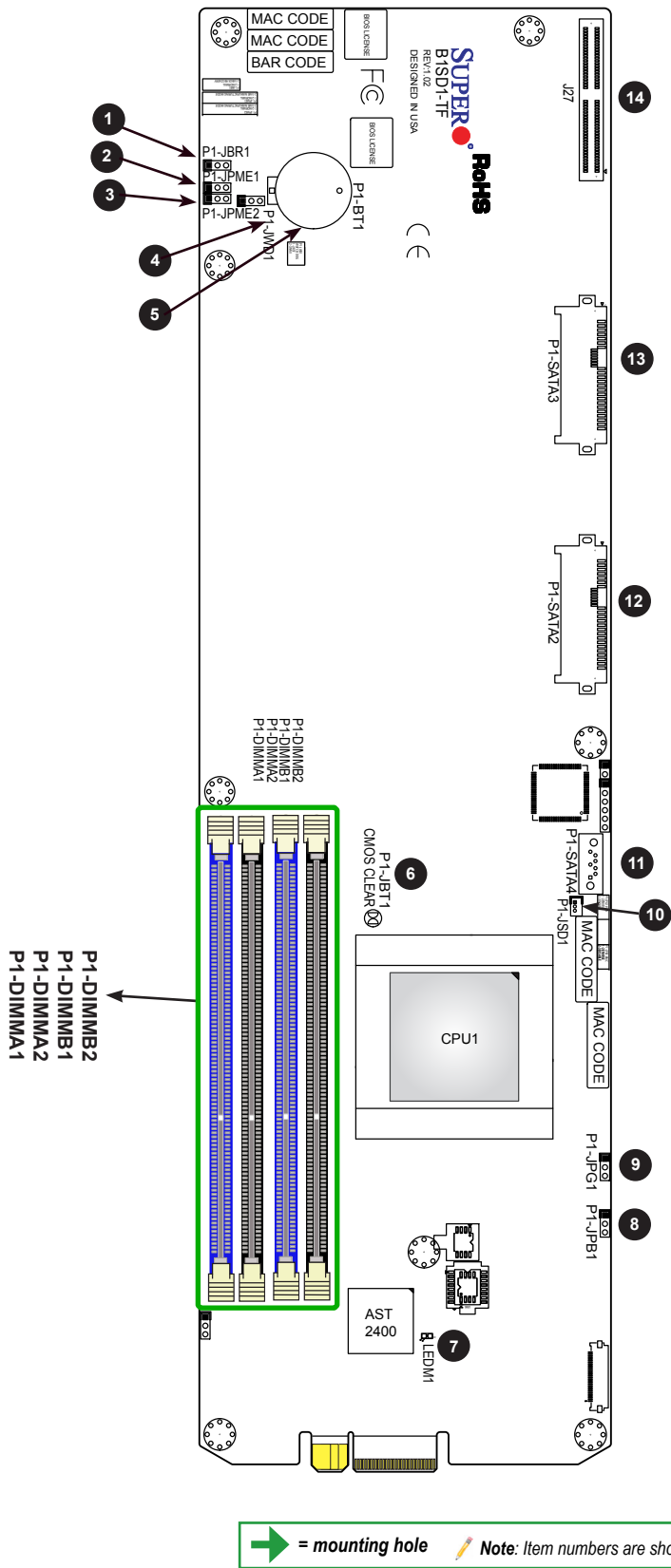


Motherboard Layout and Features



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	Pins 1-2 (Normal)
P1-JBT1	6	CMOS Clear	Open (Normal) Short (Clear CMOS)
P1-JPG1	9	VGA Enable	Pins 1-2 (Enabled)
P1-JPB1	8	BMC Enable/Disable	Pins 1-2 (Enabled)
P1-JPME1	2	ME Recovery	Pins 1-2 (Normal)
P1-JPME2	3	Manufacturing Mode	Pins 1-2 (Normal)
P1-JWD	4	Watch Dog Enable	Pins 1-2 (Reset)

Connectors		
Connector	Item #	Description
P1-BT1	5	Onboard Battery
J27	14	HDD Backplane Connector
P1-JSD1	10	SATA DOM Power
P1-SATA2/P1-SATA3/ P1-SATA4	13, 12, 10	SATA 3.0 Ports

LED Indicators				
LED	Item #	Description	Color/State	Status
LEDM1	7	BMC Heartbeat LED	Green: Blinking	BMC: Normal

CPU Support

The B1SD1-TF motherboard supports an Intel® Xeon D Soc (BGA package).

Memory Support

Please follow the table below when populating the DIMM slots.

Recommended Population				
DIMMA1	DIMMB1	DIMMA2	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
32GB	32GB	32GB	32GB	128GB

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

Memory Support

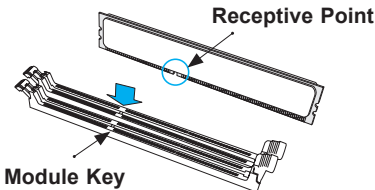
The B1SD1-TF motherboard supports up to 128GB of DDR4 VLP RDIMM ECC memory of speeds up to 2400MHz in four (4) slots. Populating these DIMM modules with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.

DIMM Memory Installation

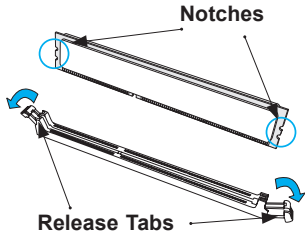
When installing memory modules, the DIMM slots should be populated in the following order: P1-DIMMA1, P1-DIMMB1, P1-DIMMA2, P1-DIMMB2. See the motherboard layout on the left for the location of the DIMM slots.

- 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.

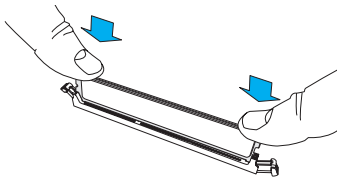
1. Align the key of the DIMM module with the receptive point on the memory slot.



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.



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