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**FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE**

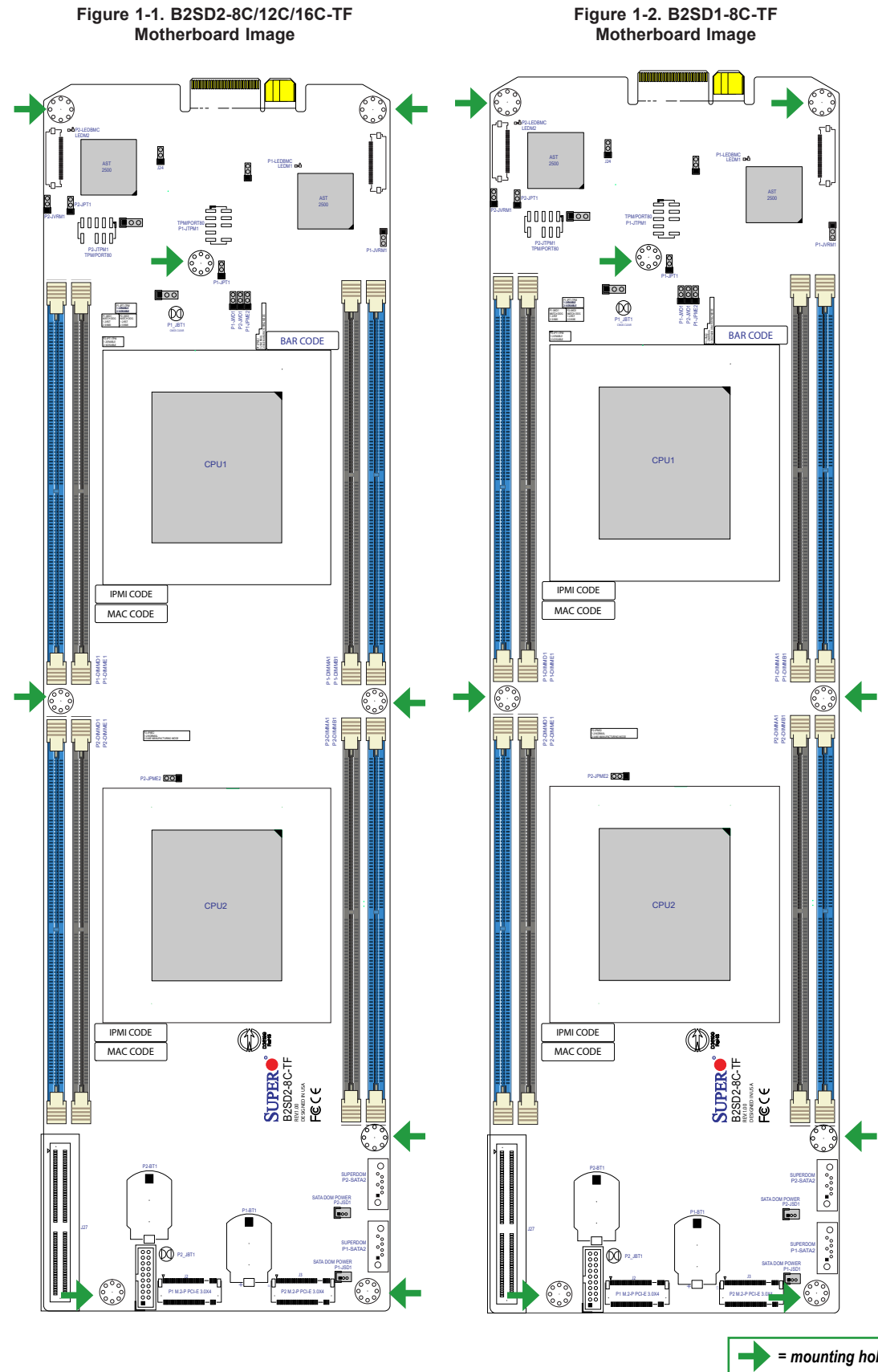
- DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:**
- Manuals: <http://www.supermicro.com/support/manuals>
  - Drivers & Utilities: <https://www.supermicro.com/wftp/driver/>
  - Safety: [http://www.supermicro.com/about/policies/safety\\_information.cfm](http://www.supermicro.com/about/policies/safety_information.cfm)

**PACKAGE CONTENTS**

- One (1) Supermicro Motherboard
- One (1) Quick Reference Guide

**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](http://www.P65Warnings.ca.gov).

**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	Description	Default
P1-JBT1	CMOS Clear for Node 1	Open (Normal)
P2-JBT1	CMOS Clear for Node 2	Open (Normal)
P1-JPME2	Manufacturing Mode for Node 1	Pins 1-2 (Normal)
P2-JPME2	Manufacturing Mode for Node 2	Pins 1-2 (Normal)
P1-JPT1	Onboard TPM Enable/Disable for Node 1	Pins 1-2 (Enabled)
P2-JPT1	Onboard TPM Enable/Disable for Node 2	Pins 1-2 (Enabled)
P1-JVRM1	VRM SMB Data (to BMC or PCH) for Node 1	Pins 1-2 (BMC)
P2-JVRM1	VRM SMB Data (to BMC or PCH) for Node 2	Pins 1-2 (BMC)
P1-JWD1	Watch Dog Enable for Node 1	Pins 1-2 (Reset)
P2-JWD1	Watch Dog Enable for Node 2	Pins 1-2 (Reset)

**Connectors**

Connector	Description
P1-BT1	Onboard Battery for Node 1
P2-BT1	Onboard Battery for Node 2
I/O	Back Panel Edge Connector (I/O, Network)
J27	HDD Backplane Connector
P1-JSD1	SATA DOM Power for Node 1
P2-JSD1	SATA DOM Power for Node 2
P1-JTPM1	Trusted Platform Module (TPM)/Port 80 Connector for Node 1
P2-JTPM1	Trusted Platform Module (TPM)/Port 80 Connector for Node 2
P1-SATA2	SATA DOM port for Node 1
P2-SATA2	SATA DOM port for Node 2
Power	Backplane Edge Connector (Power)
J2	M.2 slot M-key (PCI-E x4) for Node 1
J3	M.2 slot M-key (PCI-E x4) for Node 2

**LED Indicators**

LED	Description	Status
LEDM1	BMC Heartbeat LED for Node 1	Blinking Green: BMC Normal
LEDM2	BMC Heartbeat LED for Node 2	Blinking Green: BMC Normal

**CPU Support**

The Supermicro B2SD2(1)-8C/12C/16C-TF MicroBlade module motherboard supports an Intel® Xeon D-2100 SoC processor in a BGA package. The B2SD2-8C/12C/16C motherboard supports two CPU nodes on each board and B2SD1-8C-TF only supports one CPU node.

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

**Memory Support**

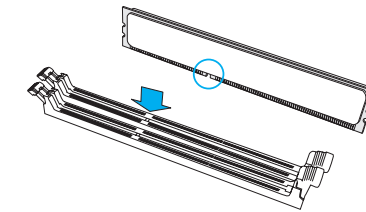
The B2SD2(1)-8C/12C/16C-TF motherboard supports up to 128GB VLP RDIMM with speeds of up to 2400MHz in four (4) DIMM slots in one CPU node. Populating these DIMM modules with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.

**DIMM Memory Installation**

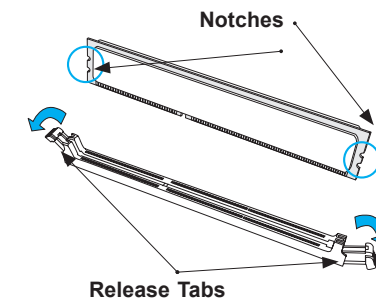
See the motherboard layout on the left for the location of the DIMM slots.

- 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.

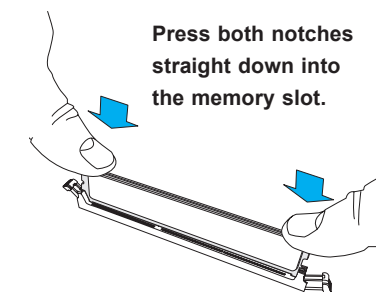
1. Align the key of the DIMM module with the receptive point on the memory slot.



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.