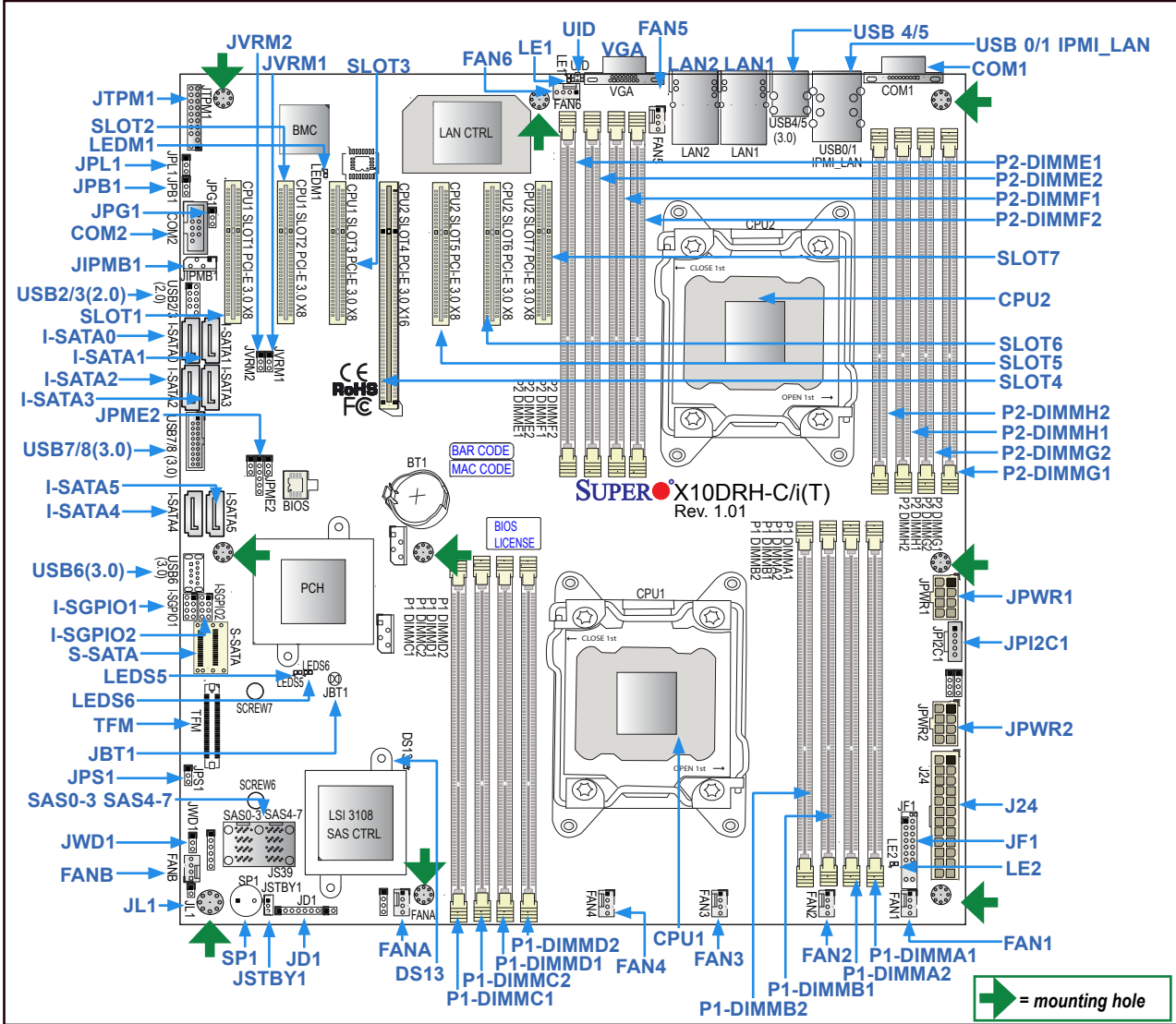




**Motherboard Layout and Features**

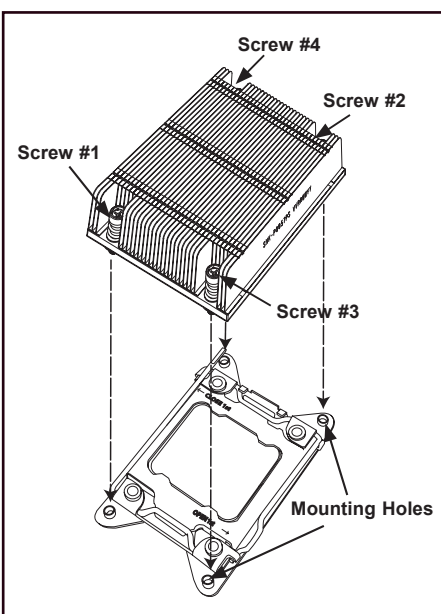


**Jumpers and Connectors**

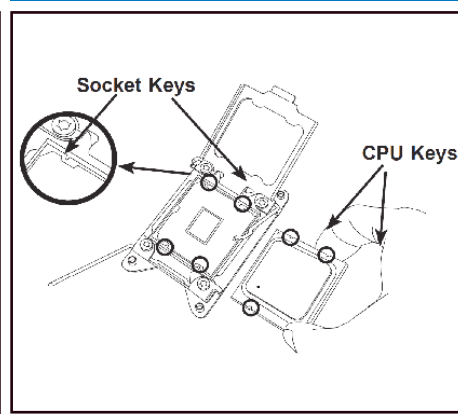
Jumper	Description	Default Setting
JBT1	CMOS Clear/Reset BIOS Configuration	Open (Normal)
JPB1	BMC Enable	Pins 1-2 (Enabled)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1	GLAN1/GLAN2 Enabled (X10DRH-C/i) (10G) TLAN1/TLAN2 Enabled (X10DRH-CT/iT)	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JVRM1	VRM SMB to Clock (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JVRM2	VRM SMB to Data (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JPS1	SAS Enable	Pins 1-2 (Enabled)
JWD1	Watch Dog Timer Enable	Pins 1-2 (Reset)

Connector	Description
BT1	Onboard CMOS battery
COM1/COM2	Backplane COM Port1/Front accessible COM2 header
FAN1-6, FANA, FANB	CPU/system fan headers (Fan 1-Fan 6, Fan A, Fan B)
J24	24-pin ATX main power connector
JD1	Speaker/Power LED header
JF1	Front panel control header
JIPMB1	4-pin external BMC I <sup>2</sup> header (for an IPMI card)
JL1	Chassis intrusion header
JPI <sup>2</sup> C1	Power supply SMBus I <sup>2</sup> C header
JPWR1/JPWR2	12V 8-pin power connectors
JSTBY1	Standby power connector
JTPM1	TPM (Trusted Platform Module)/Port 80 header
LAN1/LAN2	G-bit Ethernet (GLAN) ports 1/2 (X10DRH-C/i) 10G-bit Ethernet (TLAN) ports 1/2 (X10DRH-CT/iT)
IPMI_LAN	IPMI_dedicated LAN support by the ASpeed controller
I-SATA 0-5	SATA 3.0 connectors supported by the Intel PCH (I-SATA 0-5), (I-SATA4/I-SATA5: can be used as Supermicro SuperDOM (Disk-On-Module) with built-in power connectors)
S-SATA	SATA 3.0 vertical connector w/4-SATA connections supported by Intel SCU
SAS (0-3, 4-7) (JS39) (for X10DRH-C/CT)	SAS 3.0 connections (0-3, 4-7) supported by the LSI 3108
(CPU1) Slot1-Slot3	PCI-Express 3.0 x8 slot from CPU1
(CPU2)Slot4	PCI-Express 3.0 x16 slot from CPU2
(CPU2)Slot5-Slot7	PCI-Express 3.0 x8 slot from CPU2
(I-)SGPIO1/2	Seria_Link General Purpose I/O headers 1/2 for SATA ports (I-SGPIO1 for I-SATA0-3, I-SGPIO2 for I-SATA4/5)
SP1	Internal speaker/buzzer
TFM Header	TFM header used for onboard 3018 CacheVault (Optional)
UID	UID (Unit Identification) switch
(BP) USB 0/1 (2.0)	Back panel USB 2.0 ports 0/1
(FP) USB 2/3 (2.0)	Front accessible USB 2.0 connections (USB 2/3) header
(BP) USB 4/5 (3.0)	Back panel USB 3.0 ports 4/5
(FP) USB 7/8 (3.0)	Front accessible USB 3.0 connections (USB 7/8) header
(FP) USB 6 (3.0)	Front accessible Type A 3.0 connector (USB6)
VGA	Back panel VGA port

**Heatsink Installation**



**CPU Installation**



**Front Control Panel (JF1)**

	1	2
Power Button	○	○ Ground
Reset Button	○	○ Ground
3.3V	○	○ Power Fail LED
UID LED	○	○ OH/Fan Fail/ PWR Fail LED)
NIC2 Activity LED	○	○ NIC2 Link LED
NIC1 Activity LED	○	○ NIC1 Link LED
UID Switch	○	○ HDD LED
3.3 V	○	○ FP PWRLD
X	○	○ X
NMI	○	○ Ground

**Notes:** 1. Please refer to Chapter 2 of the user's manual for detailed installation instructions. 2. Please refer to our website at [www.supermicro.com](http://www.supermicro.com) for CPU/Memory support updates. 3. All graphics shown in this quick reference guide are for illustration only. Your components may or may not look the same as the graphics shown in this quick reference guide.

**CPU Support**

Dual Intel® E5-2600 v3/v4 series processors (Socket R3-LGA 2011); each processor supports dual full-width Intel QuickPath Interconnect (QPI) links (of up to 9.6 GT/s one direction per QPI).

**Note:** Both CPUs needed to be installed for full access to the PCI-E slots, DIMM slots, and onboard controllers. Refer to page 1-10 in the user's manual to determine which slots or devices may be affected.

**Memory Support**

The X10DRH-C/CT/i iT motherboard supports up to 1024 GB of Load Reduced (LRDIMM) or 512 GB of Registered (RDIMM) DDR4 (288-pin) ECC 2400/1333/1866/1600/1333 MHz modules in 16 slots (2 DIMMs per channel). Memory speed support depends on the processors installed in the motherboard. For the latest memory updates, please refer to our website at <http://supermicro.com/products/motherboard>.

Memory support for E5-2600(v3)				Memory support for E5-2600(v4)										
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slot Per Channel (SPC) and DIMM Per Channel (DPC)			Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slot Per Channel (SPC) and DIMM Per Channel (DPC)			
		4Gb	8Gb	1 Slot Per Channel	2 Slots Per Channel	1 Slot Per Channel			2 Slots Per Channel	1 Slot Per Channel	2 Slots Per Channel			
RDIMM	SRx4	8GB	16GB	2133	10PC	10PC	RDIMM	SRx4	8GB	16GB	2400	10PC	10PC	20PC
RDIMM	SRx8	4GB	8GB	2133	10PC	1866	RDIMM	SRx8	4GB	8GB	2400	10PC	10PC	2133
RDIMM	DRx8	8GB	16GB	2133	10PC	1866	RDIMM	DRx8	8GB	16GB	2400	10PC	10PC	2133
RDIMM	DRx4	16GB	32GB	2133	10PC	1866	RDIMM	DRx4	16GB	32GB	2400	10PC	10PC	2133
LRDIMM	QRx4	32GB	64GB	2133	10PC	2133	LRDIMM	QRx4	32GB	64GB	2400	10PC	10PC	2400
LRDIMM 3DS <sup>†</sup>	8Rx4	64GB	128GB	2133	10PC	2133	LRDIMM 3DS	8Rx4	64GB	128GB	2400	10PC	10PC	2400

**LED Indicators**

LED	Description	State	Status
DS13 (X10DRH-C/CT)	SAS Heartbeat LED	Green: Blinking	SAS Normal
LE1	Rear UID LED	Blue: On	Unit Identified
LE2	Onboard PWR LED	On	Power On
LDM1	BMC Heartbeat LED	Green: Blinking	BMC Normal
LEDS5 (X10DRH-C/CT)	SAS Activity LED	Green: Blinking	SAS Active
LEDS6 (X10DRH-C/CT)	SAS Fault LED	Red: On	SAS Error(s) Detected

**Back Panel I/O Connectors**

