CONTACT INFORMATION

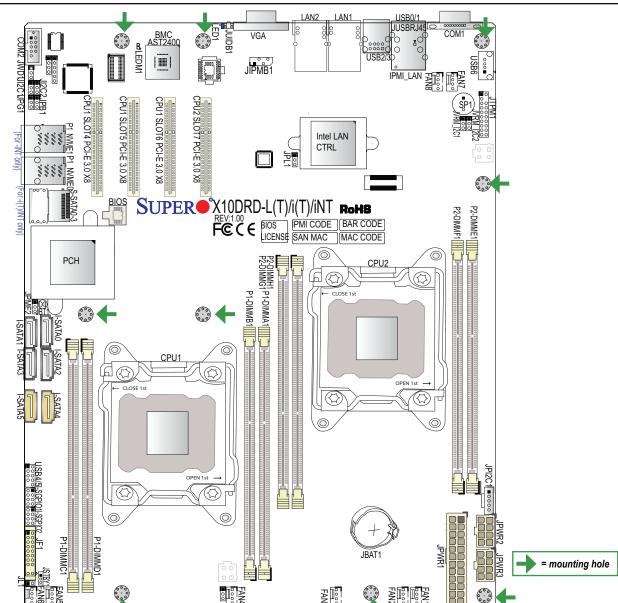
- Website: www.supermicro.com
- General Information: marketing@supermicro.com
- Tech Support: support@supermicro.com
- FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:
- Manuals: http://www.supermicro.com/support/manuals/
- Drivers & Utilities: http://www.supermicro.com/wftp
- Phone: +1 (408) 503-8000, Fax: +1 (408) 503-8008 Safety: http://www.supermicro.com/about/policies/safety_information.cfm One (1) Quick Reference Guide (MNL-1712-QRG)

PACKAGE CONTENTS

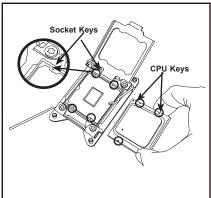
- One (1) Supermicro Motherboard
- Four (4) SATA Cables (CBL-0044L)
- One (1) I/O shield (MCP-260-00042-0N)
- lead, known to the State of California to cause cancer and birt lefects or other reproductive harm. For more information, s to www.P65Warnings.ca.gov.
- One (1) iPASS to 4-SATA cable (CBL-0097L-03) (for X10DRD-i/iT/iNT)

MNL-1712-QRG-10b

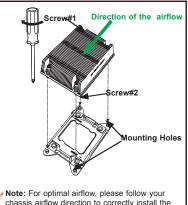
Motherboard Layout and Features



CPU Installation



Heatsink Installation



Front Control Panel (JF1)

	1	2	,
Power Button	0	0	Ground
Reset Button	0	0	Ground
3.3V	0	0	Power Fail LED
UID LED	0	0	OH/Fan Fail/ PWR Fail LED)
NIC2 Activity LED	0	0	NIC2 Link LED
NIC1 Activity LED	0	0	NIC1 Link LED
UID Switch	0	0	HDD LED
3.3 V	0	0	FP PWRLED
x	0	0	x
NMI	0	0	Ground
·	19	20	_

Note: Refer to Chapter 1 of the user's manual for detailed information on jumpers, connectors, and LED indicators.

Jumpers and Connectors

Jumpers						
Jumper	Description	Default Setting				
JBT1	Clear CMOS	See Chapter 2				
JI ² C1/JI ² C2	SMB to PCI-E Slots	Pins 2-3 (Disabled)				
JPB1	BMC Enable	Pins 1-2 (Enabled)				
JPG1	VGA Enable	Pins 1-2 (Enabled)				
JPL1	Gigabit LAN 1/2 Enable (X10DRD-L/i)	Pins 1-2 (Enabled)				
JPL1	10G_LAN 1/2 Enable (X10DRD-LT/iT/iNT)	Pins 1-2 (Enabled)				
JPME2	Manufacture (ME) Mode Select	Pins 1-2 (Normal)				
JWD1	Watch Dog Timer Enable	Pins 1-2 (Reset)				

	Connectors
Connectors	Description
JBAT1 (Battery)	Onboard CMOS battery (See Chpt. 3 for Used Battery Disposal)
COM1/COM2	Backplane COM Port1/Front accessible COM2 header
FAN 1-8	CPU/system fan headers (FAN1-FAN8)
IPMI_LAN	IPMI_dedicated LAN support by the Aspeed controller
JF1	Front control panel header
JL1	Chassis intrusion header
JPI ² C1	Power supply SMBbus I ² C header
JPWR1	24-pin ATX main power connector (See Warning on Pg. 1-6)
JPWR2/JPWR3	12V 8-pin power connectors (See Warning on Pg. 1-6.)
JSTBY1	Standby power connector
JTPM1	TPM (Trusted Platform Module)/Port 80 header
P1-NVME0/1	NVM Express PCI-E 3.0 x4 ports (by internal mini-SAS HD connector) (for X10DRD-iNT only)
I-SATA 0-5	SATA 3.0 connectors supported by Intel® PCH (I-SATA 0-5), (I-SATA4/I-SATA5: can be used as Supermicro SuperDOMs [Devices-on-Module] with built-in power connectors)
S-SATA0-3	SATA 3.0 connections 0-3 supported by Intel® SCU (for X10DRD-i/iT/iNT only)
LAN1	10G Ethernet LAN Port 1 (X10DRD-LT/iT/iNT) Gigabit Ethernet LAN Port1 (X10DRD-L/i)
LAN2	10G Ethernet LAN Port 2 (X10DRD-LT/iT/iNT) Gigabit Ethernet LAN Port2 (X10DRD-L/i)
(CPU1)Slot4	PCI-Express 3.0 x8 slot from CPU1 (for X10DRD-i/iT/iNT)

(CPU1)Slot5 PCI-Express 3.0 x8 slot from CPU1 (for X10DRD-i/iT/iNT) PCI-Express 3.0 x8 slot from CPU1 (CPU1)Slot6 (CPU2)Slot7 PCI-Express 3.0 x8 slot from CPU2 (for X10DRD-i/iT/iNT) (CPU2

is required) Internal speaker/buzzer UID-SW (JUIDB1) UID (Unit Identification) switch

(BP) USB 0/1 (2.0) Backpanel USB 2.0 ports 0/1 Backpanel USB 2.0 connections (USB 2/3) header (BP) USB 2/3 (2.0) (FP) USB 4/5 (2.0) Front-accessible USB 2.0 ports 4/5

(FP) USB 6 (2.0) Front-accessible Type A 2.0 connector (USB6) VGA Backpanel VGA port

CPU Support

Dual Intel® E5-2600v3/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)

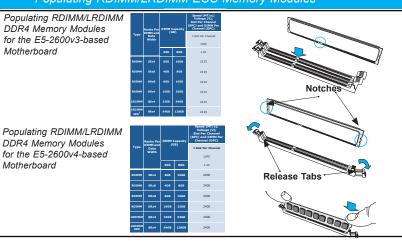
Notes: 1. The X10DRD-LT/i/iT/iNT supports CPU Thermal Design Power (TDP) of up to 145W, and X10DRD-L supports TDP of up to 120W.

2. Please install both CPUs for full access to onboard PCI-E slots, DIMM slots, and controllers. Refer to the block diagram on page 1-10 in the user's manual to determine which slots or devices may be affected. Please populate CPU socket 1 first.

Memory Support

This motherboard supports up to 1024 GB of Load Reduced (LRDIMM) or 256 GB of Registered (RDIMM) DDR4 (288-pin) ECC 2400/2133/1866/1600 MHz modules in eight slots. Memory speed support is dependent on the CPUs installed in the motherboard. For the latest memory updates, please refer to our website at http:// www.supermicro.com/products/motherboard.

Populating RDIMM/LRDIMM ECC Memory Modules



Back Panel I/O Connectors



1.	COM Port 1
2.	Back Panel USB 2.0 Port 0
3.	Back Panel USB 2.0 Port 1
4.	IPMI-Dedicated LAN
5.	Back Panel USB 2.0 Port 2
6.	Back Panel USB 2.0 Port 3
7.	10GbE LAN Port 1 (X10DRD-LT/iT/iNT) Gigabit LAN Port 1 (X10DRD-L/i)
8.	10GbE LAN Port 2 (X10DRD-LT/iT/iNT) Gigabit LAN Port 2 (X10DRD-L/i)
9.	Back Panel VGA (Blue)

10. UID Button/UID LED

LED Indicators

LED	Description	State	Status
LED1	Rear UID LED	Blue: On	Unit Identified
LEDM1	BMC Heartbeat LED	Green: Blinking	BMC Normal

Note: Refer to Chapter 2 of the user's manual for detailed information on memory support and CPU/ motherboard installation instructions