

CONTACT INFORMATION

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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

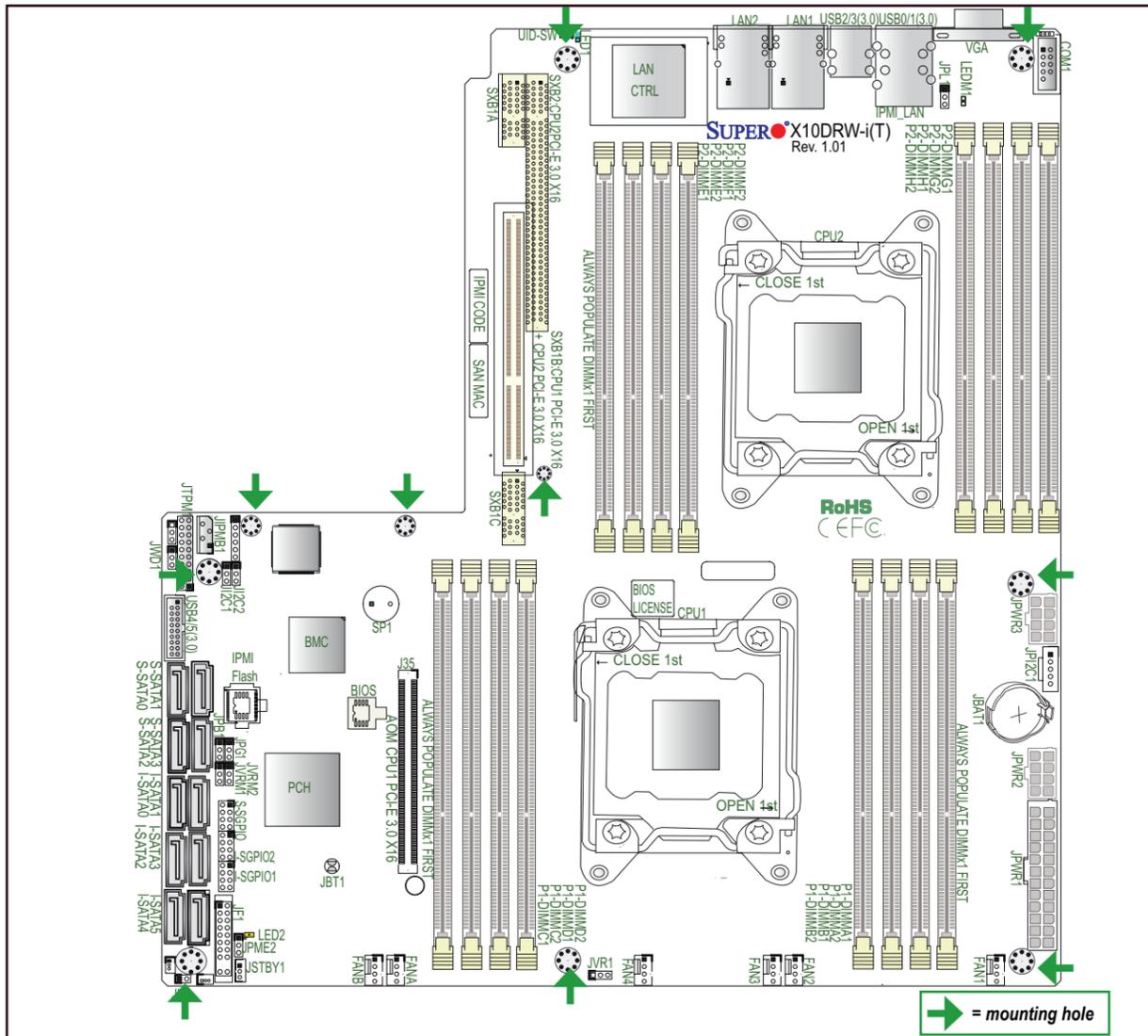
- DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:**
- Manuals: <http://www.supermicro.com/support/manuals/>
 - Drivers & Utilities: <http://www.supermicro.com/wftp>
 - Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

- One (1) Supermicro Motherboard
- Six (6) SATA Cables (CBL-0044L)
- One (1) Quick Reference Guide (MNL-1557-QRG)



Motherboard Layout and Features



Jumpers, Connectors, and LED Indicators

Jumpers		
Jumper	Description	Default Setting
JBT1	Clear CMOS	See Chapter 2
JIP°C1/JIP°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	GLAN1/GLAN2 Enable (X10DRW-i) 10G_LAN1/10G_LAN2 Enable (X10DRW-iT)	Pins 1-2 (Enabled)
JPME2	Manufacture (ME) Mode Select	Pins 1-2 (Normal)
JWD1	Watch-Dog Timer Enable	Pins 1-2 (Reset)

Connectors		
Connector	Description	
AOM Slot (J35)	PCI-E 3.0 x16 Add-On-Module (AOM) Slot for the Mezzanine HBA Card (See Note 1 on page 1-6 in the user manual.)	
Battery (JBAT1)	Onboard CMOS Battery (See Chpt. 3 in the user manual for battery disposal.)	
COM1	Backplane COM Port	
Fan1-4, FanA/B	CPU/System Fan Headers (Fan1-Fan4), PCH/Peripheral Fan Headers (FanA-FanB)	
JF1	Front Control Panel Header	
JIPMB1	4-pin External BMC I°C Header (for IPMI-card support)	
JL1	Chassis Intrusion	
JPI°C1	Power Supply SMBus I°C Header	
JPWR1	24-pin ATX Main Power Connector	
JPWR2/3	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 (for X10DRW-i) 10G-bit Ethernet (GLAN) Ports 1/2 (for X10DRW-iT)	
(IPMI)_LAN	IPMI_Dedicated LAN Support by the Aspeed Controller	
(I-)SATA 0-5	Intel® SATA 3.0 Connectors (0-5) from Intel® PCH	
(S-)SATA0-3	Intel® SATA 3.0 Connectors (0-3) from Intel® SCU	
I-SGPIO1/2	Serial_Link General-Purpose I/O (SGPIO) Headers for I-SATA 3.0 Connections (I-SGPIO1 for I-SATA0-3, I-SGPIO2 for I-SATA4/5)	
S-SGPIO	Serial-Link General-Purpose I/O (SGPIO) Header for S-SATA 3.0 Connections 0-3	
SP1	Internal Speaker/Buzzer	
SXB1A	SMC-proprietary SPEC Slot (Left) (See Note 2 on Pg 1-6 in the user manual.)	
SXB1B	SMC-proprietary SPEC Slot (Left) (CPU1/CPU2) PCI-E 3.0 x16 + x16 Add-on Card Slot (Left) (See Note 2 on Pg 1-6 in the user manual.)	
SXB1C	SMC-proprietary SPEC Slot (Left) (See Note 2 on Pg 1-6 in the user manual.)	
SXB2	SMC-proprietary PCI-E 3.0 x16 Add-on Card Slot (Right) (See Note 3 on Pg 1-6 in the user manual.)	
UID-SW	UID Switch	
(BP) USB 0/1 (3.0)	Backpanel USB 3.0 Port 0/ Port 1	
(BP) USB 2/3 (3.0)	Backpanel USB 3.0 Port 2/Port 3	
(FP) USB 4/5 (3.0)	Front Accessible USB 3.0 connections 4/5 header	
VGA	Backpanel VGA port	

LED Indicators			
LED	Description	State	Status
LED1	Rear UID LED	Blue: On	Unit Identified
LED2	Onboard PWR LED	On	System Power On
LEDM1	BMC Heartbeat LED	Green: Blinking	BMC Normal

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)

Memory Support

The X10DRW-i(T) motherboard supports up to 2048 GB of Load Reduced (LRDIMM) and up to 512 GB of Registered (RDIMM) DDR4 (288-pin) ECC 2400/2133/1866/1600 MHz memory in 16 slots (2 DIMMs per channel). Memory speed support is pending on the CPUs installed in the motherboard. For the latest memory updates, please refer to our website at <http://www.supermicro.com/products/motherboard>.

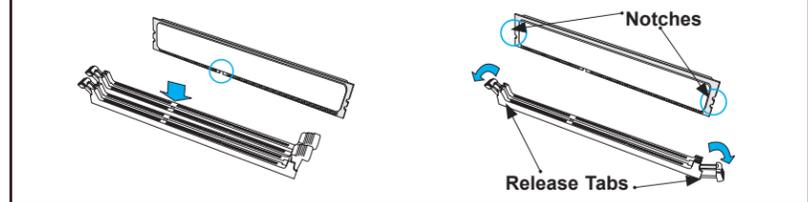
Populating RDIMM/LRDIMM DDR4 Memory Modules for the E5-2600v3-based Motherboard

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	3 Slots Per Channel
		1DPC	1DPC	2DPC	1DPC	2DPC
RDIMM	SRx4	8GB	16GB	2133	2133	1866
RDIMM	SRx8	4GB	8GB	2133	2133	1866
RDIMM	DRx8	8GB	16GB	2133	2133	1866
RDIMM	DRx4	16GB	32GB	2133	2133	1866
LRDIMM	QRx4	32GB	64GB	2133	2133	2133
LRDIMM 3DS [†]	8Rx4	64GB	128GB	2133	2133	2133

Populating RDIMM/LRDIMM DDR4 Memory Modules for the E5-2600v4-based Motherboard

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	3 Slots Per Channel
		1DPC	1DPC	2DPC	1DPC	2DPC
RDIMM	SRx4	8GB	16GB	2400	2400	2133
RDIMM	SRx8	4GB	8GB	2400	2400	2133
RDIMM	DRx8	8GB	16GB	2400	2400	2133
RDIMM	DRx4	16GB	32GB	2400	2400	2133
LRDIMM	QRx4	32GB	64GB	2400	2400	2400
LRDIMM 3DS [†]	8Rx4	64GB	128GB	2400	2400	2400

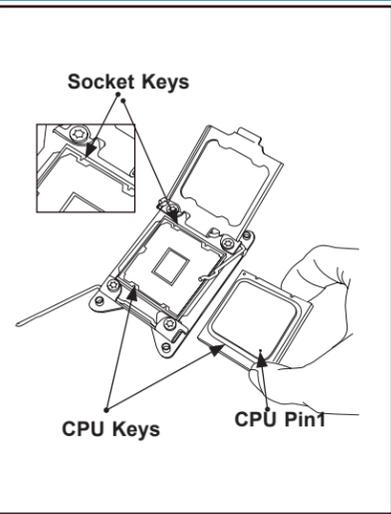
DIMM Memory Installation



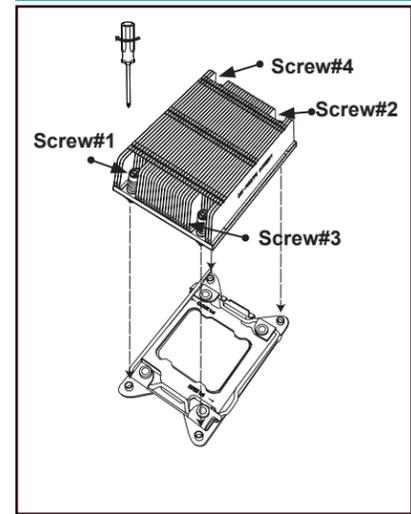
Back Panel I/O Connectors

A.	Back Panel VGA (Blue)
B.	Back Panel USB 3.0 Port 0
C.	Back Panel USB 3.0 Port 1
D.	IPMI_Dedicated LAN
E.	Back Panel USB 3.0 Port 2
F.	Back Panel USB 3.0 Port 3
G.	Gigabit LAN 1
H.	Gigabit LAN 2
I.	UID Switch/UID LED (LED1) (on the motherboard)

CPU Installation



Heatsink Installation



Front Control Panel (JF1)

Ground	20	19	NMI
X		X	3.3 V
FP PWRLED			UID Switch
HDD LED			NIC1 Activity LED
NIC1 Link LED			NIC2 Activity LED
NIC2 Link LED			UID LED
OH/Fan Fail/PWR Fail LED			3.3V
Power Fail LED			Reset Button
Ground	2	1	PWR Power Button

Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as the drawings shown in this guide.

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

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