SUPERMICRO®
X11DDW-L/NT
Quick Reference Guide Rev. 1.00

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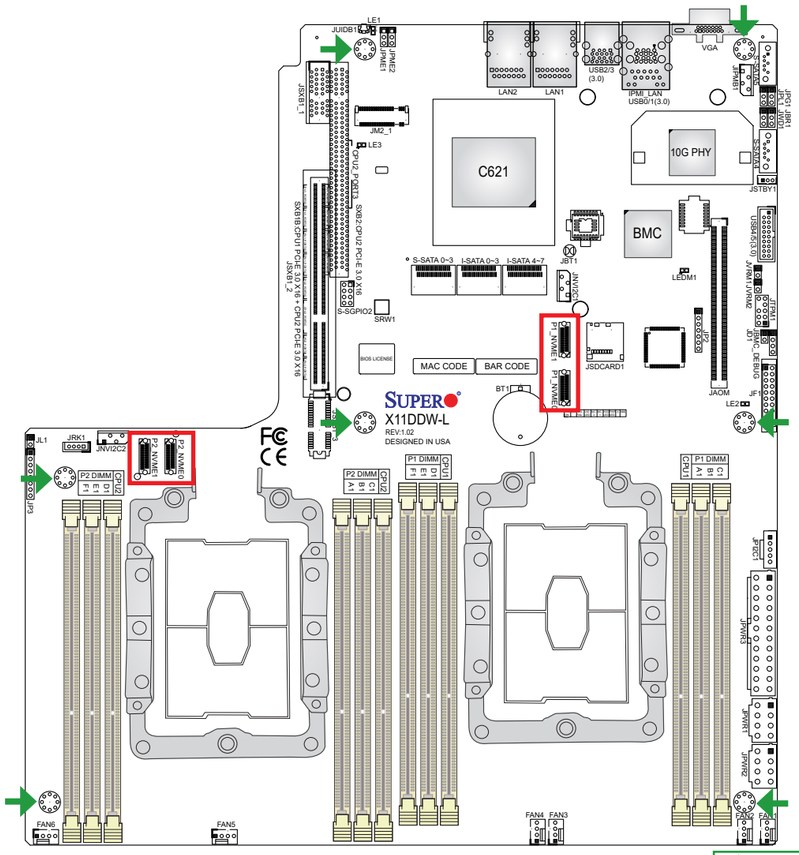
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: ftp://ftp.supermicro.com
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One (1) Supermicro Motherboard
- Two (2) SATA Cables
- One (1) Quick Reference Guide (MNL-1907-QRG)

Motherboard Layout and Features

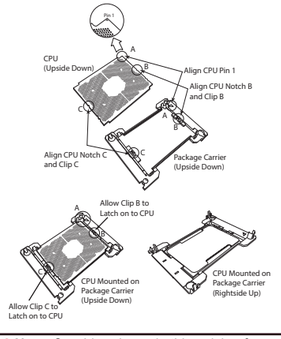


NVMe slots on -NT model only

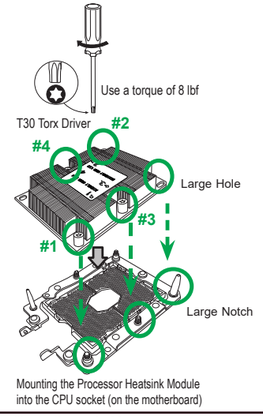
= *mounting hole*

CPU Installation

Remove the CPU socket cover and then assemble the CPU in the package carrier. With the CPU mounted on the package carrier, install it on the LGA3647 socket.



Heatsink Installation



Mounting the Processor Heatsink Module into the CPU socket (on the motherboard)

Front Panel Control (JF1)

		1	2	
Power Button	PWR	○	○	Ground
Reset Button	Reset	○	○	Ground
Power Fail		○	○	3.3V
UID LED		○	○	OH/Fan Fail LED
NIC2 Activity LED		○	○	3.3V Stby
NIC1 Activity LED		○	○	3.3V Stby
HDD LED		○	○	3.3V Stby
Power LED		○	○	3.3V
X		○	○	X
NMI		○	○	Ground
		19	20	

Jumpers, Connectors and LED Indicators

Jumpers

Jumper	Description	Default Setting
JBT1	Clear CMOS	Open (Normal)
JPG1	VGA Enable	Pins 1-2 (Enabled)
JPL1	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
JPME1	ME Recovery	Pins 1-2 (Normal)
JPME2	Manufacturing (ME) Mode Select	Pins 1-2 (Normal)
JVRM1	VRM SMB Clock (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JVRM2	VRM SMB Data (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JWD1	Watch Dog Timer Enable	Pins 1-2 (Normal)

Connectors

Connectors	Description
Battery (BT1)	Onboard CMOS battery
Fan1~6	System cooling fan headers
IPMI_LAN	Dedicated IPMI LAN port
JAOM	PCI-E 3.0 x16 SAS3 AOM controller slot
JD1	Power LED/Speaker header (Pins 1-3: Power LED, Pins 4-7: Speaker)
JF1	Front control panel header
JIPMB1	4-pin external BMC I²C header (for an IPMI card)
JL1	Chassis Intrusion header
JM2_1	M.2 slot supported by PCH
JNVI²C1/JNVI²C2	NVMe I²C headers
JPI²C1	Power Supply SMBbus I²C header
JPWR1/JPWR2	12V 8-pin power supply connectors
JPWR3	24-pin ATX main power supply connector
JRK1	RAID Key for onboard SATA devices
JSDCARD1	Micro SD Card slot
JSTBY1	Standby power header
JTPM1	Trusted Platform Module (TPM)/Port 80 connector
JUIDB1	Unit Identifier (ID) switch
LAN1/LAN2	Gigabit LAN (GLAN) Ethernet ports on the back panel
P1_NVME0/P1_NVME1	NVM Express PCI-Express 3.0 x4 ports (from CPU1))
P2_NVME0/P2_NVME1	NVM Express PCI-Express 3.0 x4 ports (from CPU2)
(I-)SATA 0~3, 4~7	I-SATA 3.0 connectors supported by the Intel PCH
(S-)SATA0~3	S-SATA 3.0 connectors supported by the Intel SCU
(S-)SATA4/S-SATA5	S-SATA 3.0 connectors with built-in power pins and support of Supermicro SuperDOM (Disk-on-Module) devices
SXB1	PCI-E 3.0 (x16 + x16) Left Riser Card slot supported by CPU1 and CPU2
SXB2	PCI-E 3.0 x 16 Right Riser Card slot supported by CPU2
T-SGPIO3	Serial General Purpose I/O port
USB0/1	Back panel USB 2.0 ports
USB2/3	Back panel USB 3.0 ports
USB4/5	USB 3.0 headers
VGA	Backpanel VGA Port

LED Indicators

LED	Description	State	Status
LE1	UID (Unit Identifier) LED	Solid Blue	Unit Identified
LE2	Onboard Power LED	On	Onboard Power On
LE3	M.2 LED	Blinking Green	Device Working
LEDM1	BMC Heartbeat LED	Blinking Green	BMC Normal

CPU Support

Dual Intel Xeon 81xx/61xx/51xx/41xx/31xx series processors (Socket P); each processor supports dual full-width Intel QuickPath Interconnect (QPI) links of up to 10.4GT/s one direction per QPI.

Memory Support

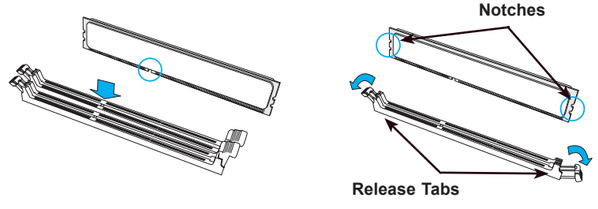
The X11DDW-L/NT motherboard supports up to 1024GB of ECC Load Reducted DIMM (LRDIMM), Registered DIMM (RDIMM), and Non-Volatile DIMM (NV-DIMM) DDR4 (288-pin) 2666MT/s modules in 16 slots. For the latest CPU memory updates, please refer to our website at http://supermicro.com/products/motherboard.

Memory support for E5-2600V

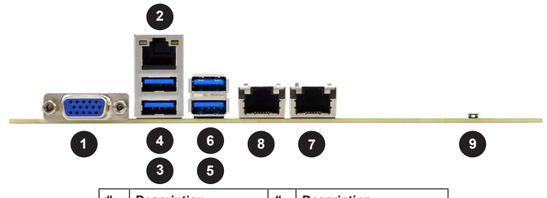
DDR4 Memory Support for the Intel Xeon 81xx/61xx/51xx/41xx/31xx Processor Platform

Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)	
				2 Slots per Channel	
				1DPC (1-DIMM per Channel)	2DPC (2-DIMM per Channel)
		4 Gb	8 Gb	1.2 V	1.2 V
RDIMM	SRx4	8 GB	16 GB	2666	2666
RDIMM	SRx8	4 GB	8 GB	2666	2666
RDIMM	DRx8	8 GB	16 GB	2666	2666
RDIMM	DRx4	16 GB	32 GB	2666	2666
RDIMM 3Ds	QRX4	N/A	2H-64GB	2666	2666
	8RX4	N/A	4H-128GB	2666	2666
LRDIMM	QRx4	32 GB	64 GB	2666	2666
LRDIMM 3Ds	QRX4	N/A	2H-64GB	2666	2666
	8Rx4	N/A	4H-128 GB	2666	2666

DIMM Memory Installation



Back Panel I/O Connectors



#	Description	#	Description
1.	VGA port	6.	USB3 (3.0)
2.	Dedicated IPMI LAN	7.	LAN 2
3.	USB0 (2.0)	8.	LAN 1
4.	USB1 (2.0)	9.	Unit Identifier switch
5.	USB2 (3.0)		

***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.*

***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.*

MNL-1907-QRG-100