SUPERMICRO® SuperWorkstation 7039A-i Quick Reference Guide

Board Layout
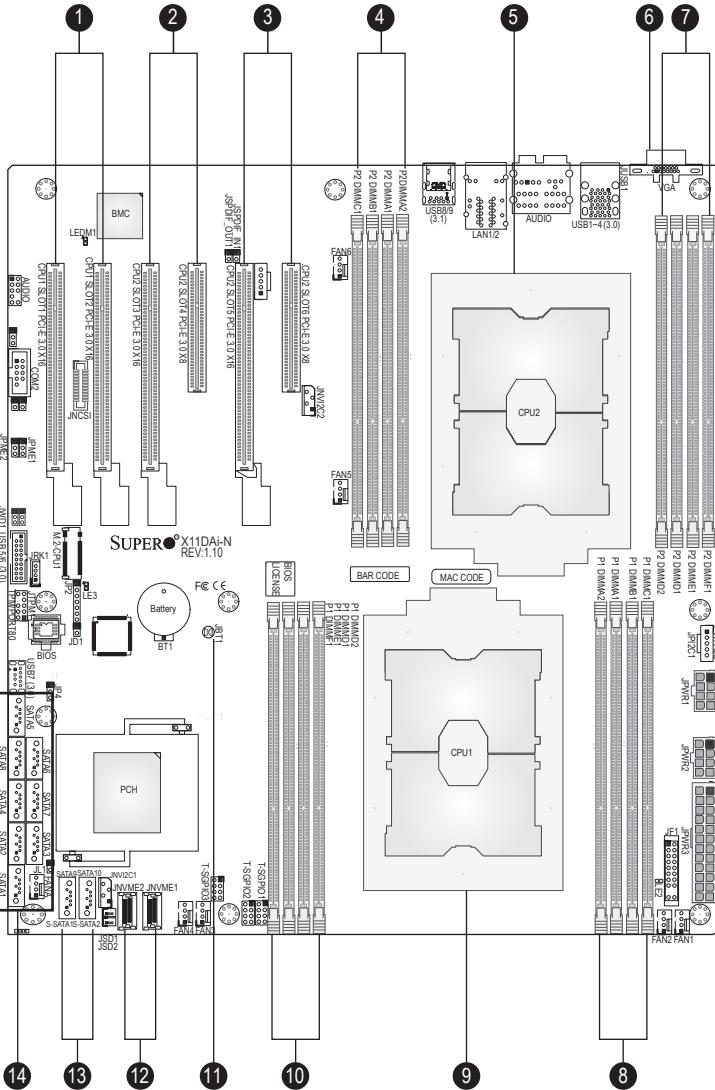
No.	Description	No.	Description
1	PCI-Express 3.0 X16 slots supported by CPU1	8	P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2 slot
2	PCI-Express 3.0 X16 and PCI-Express 3.0 X8 slots supported by CPU2	9	CPU1
3	PCI-Express 3.0 X16 and PCI-Express 3.0 X8 slots supported by CPU2	10	P1-DIMMD2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 slot
4	P2-DIMMC1/P2-DIMMB2/P2-DIMMA1/P2-DIMMA2 slot	11	JBT1: CMOS Clear
5	CPU2	12	NVMe slots
6	VGA	13	S-SATA 1~2, SATA 3.0 Ports (Intel SCU)
7	P2-DIMMD2/P2-DIMMD1/P2-DIMME1/P2-DIMMF1 slot	14	SATA1~4, SATA5~8: SATA 3.0 Ports (Intel PCH)

Memory Support

Memory Population Table

| When 2 CPUs are used	Memory Population Sequence
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1
	CPU2: P2-DIMMA1
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1
	CPU2: P2-DIMMA1/P2-DIMMD1
2 CPUs & 6 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1
	CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1
2 CPUs & 8 DIMMs	CPU1: P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1
	CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1
2 CPUs & 10 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1
	CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1
2 CPUs & 12 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1
	CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1
2 CPUs & 14 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1
	CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMA2/P2-DIMMD1/P2-DIMME1/P2-DIMMF1
2 CPUs & 16 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1
	CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/P2-DIMMD1/P2-DIMME1/P2-DIMMF1

Heatsink Installation

Oval C (Large Guiding Post)
Oval D
Small Guiding Post
Printed Triangle
Use a torque of 12lbf-in
T30 Torx Driver
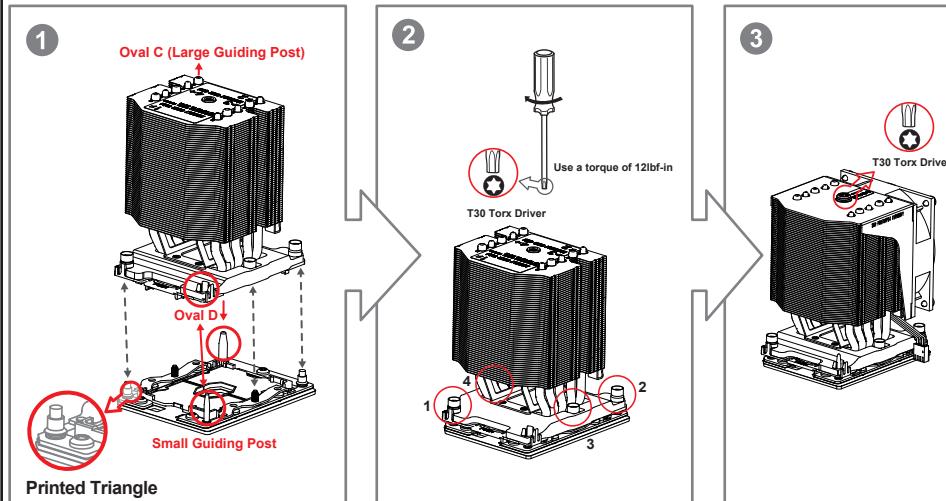
Installing Heatsink

1. Mounting the Processor Heatsink Module Into the CPU Socket (on the motherboard)
2. Tighten the screws in the sequence of 1,2,3,4 (top 3 quarter view)
3. Mount the fan module onto the Heatsink Module (direction of the arrow on the fan module should be pointing towards the rear of the chassis)
4. Tighten the single locking screw on the top of the fan module body.

Front View & Interface

No.	Description
1	Power Button
2	LAN Indicator
3	HDD Activity Indicator
4	System Information
5	Audio
6	Microphone
7	USB 3.0 ports

CPU Installation
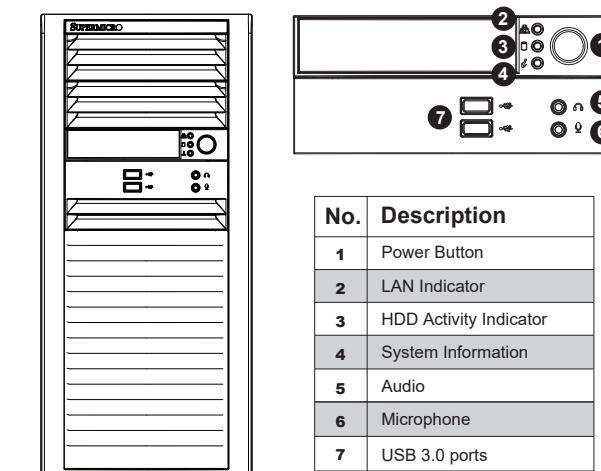
CPU (Upside Down) w/CPU LGA Lands up
Align Notch C of the CPU and Notch C of the Processor Clip
Pin 1
Align Notch B of the CPU and Notch B of the Processor Clip
Align CPU Pin 1
CPU/Heatsink Package (Upside Down)
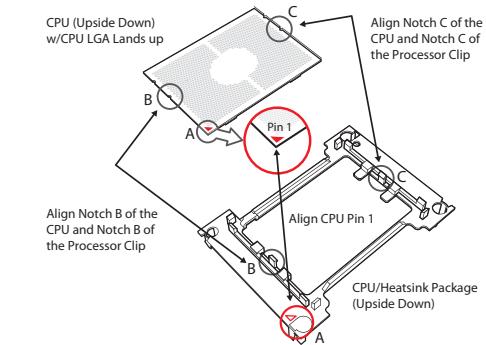
Hard Drives Installation

Release Tab (A)
HDD Cage (B)
Release Tabs
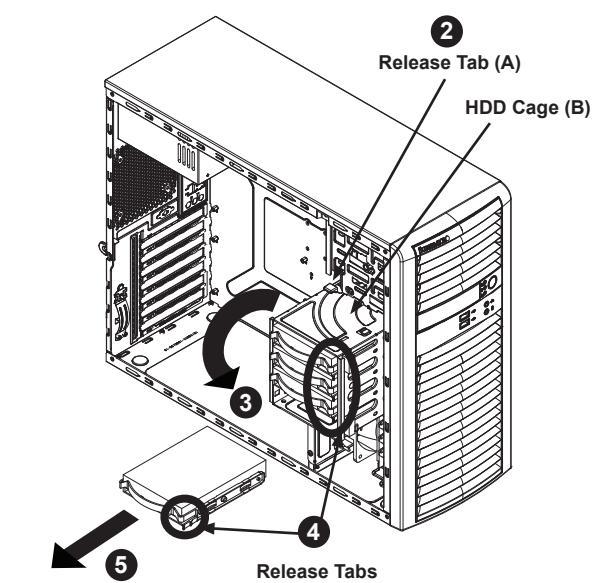
Removing and Installing 3.5" Hard Drives
1. Disconnect the chassis from any power source.
2. Rotate the hard drive cage outward 90 degrees.
3. Disconnect all of the cables from the hard drive.
4. Press the release tab on the side of the hard drive carrier that is to be removed from the hard drive cage.
5. Gently slide the hard drive carrier out of the hard drive cage.

Installing an Optical Device

Installing an Optical Device

1. Remove the front bezel from the chassis by lifting it upwards from the bottom, and pulling off the front of the chassis.
2. Remove the cover plate from the optical device slot on the front of the chassis.
3. Install the bracket rail (A) onto one side of the optical device, by inserting the pins of the bracket into the mounting holes on the sides of the optical device.
4. Slide the optical device into the chassis.
5. If desired, screws may be used where indicated below (B) to secure the optical device into chassis.

(B)
Bracket Rail (A)
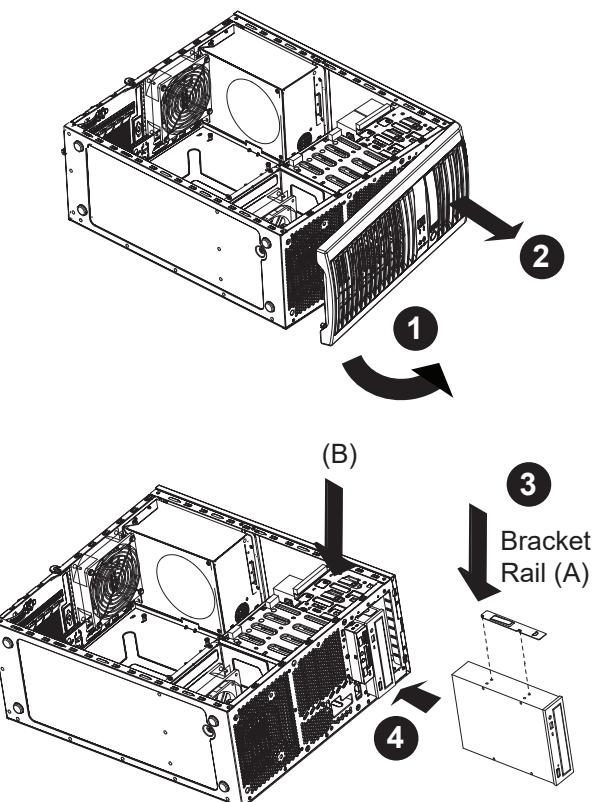
Caution

⚠ **SAFETY INFORMATION**
IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

⚠ **WARNING:**
To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets.
If any CPU socket empty, install protective plastic CPU cap

⚠ **CAUTION:**
Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to http://www.supermicro.com/support