

# SUPERMICRO® SuperWorkstation 5038A-I Quick Reference Guide

### Board Layout

No.	Description
1	CPU Slot1 PCI-E 3.0 x8 (in x16)
2	CPU Slot2 PCI-E 3.0 x8 (in x16)
3	PCH Slot3 PCI-E 2.0 x1 (in x4)
4	CPU Slot4 PCI-E 3.0 x8 (in x16)
5	PCH Slot5 PCI-E 2.0 x1 (in x4)
6	CPU Slot6 PCI-E 3.0 x16
7	DIMMA1 (Blue slot)/DIMMA2
8	DIMMB1 (Blue slot)/DIMMB2
9	CPU
10	DIMMD1 (Blue slot)/DIMMD2
11	DIMMC1 (Blue slot)/DIMMC2
12	JSD1 = SATA DOM Power
13	SATA3 (6 Gbps)
14	JBT1 = CMOS Reset

### Memory

Notch

Front View

Top View of DDR4 Slot

Note: Notch should align with the receptive key point on the slot.

Release Tab

Release Tab

Memory Population Examples (Balanced)

DIMMA1	DIMMB1	DIMMC1	DIMMD1	DIMMA2	DIMMB2	DIMMC2	DIMMD2	Total System Memory
4GB	4GB							8GB
4GB	4GB	4GB	4GB					16GB
4GB	4GB	4GB	4GB	4GB	4GB			24GB
4GB	32GB							
8GB	8GB							16GB
8GB	8GB	8GB	8GB					32GB
8GB	8GB	8GB	8GB	8GB	8GB			48GB
8GB	64GB							

I/O Back Panel

DIMMA1 (Blue Slot)  
DIMMA2

DIMMB1 (Blue Slot)  
DIMMB2

CPU

DIMMD2

DIMMD1 (Blue Slot)

DIMMC2

DIMMC1 (Blue Slot)

### 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

Align CPU to socket; install CPU straight down

! NOTE:  
Do not bend pin inside socket

### Hard Drives Installation

Release Tab (A)

HDD Cage (B)

Release Tabs

Release Tabs

### 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 side 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.

1

2

3

(B)

4

#### 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](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.

### Heatsink Installation

Screw #C

Screw #A

Screw #B

Screw #D

1. Place heatsink on top of installed CPU
2. Line up the four screws to socket
3. Push down heatsink and screw down as shown (cross pattern, in order: A, C, B, D)
4. NOTE: Only use 6-8 lb/f of torque; otherwise, hand-tighten each screw, to avoid damaging the system

### 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.

<http://www.supermicro.com>

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