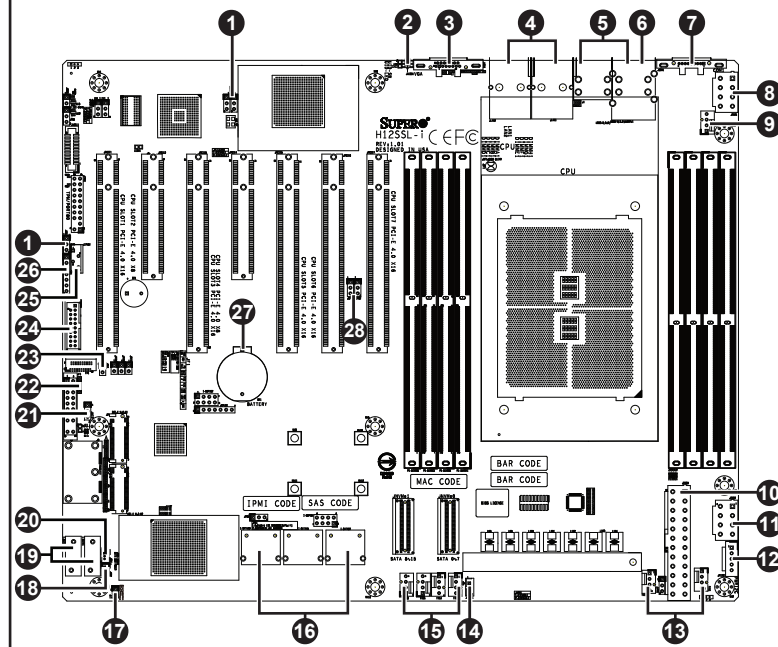


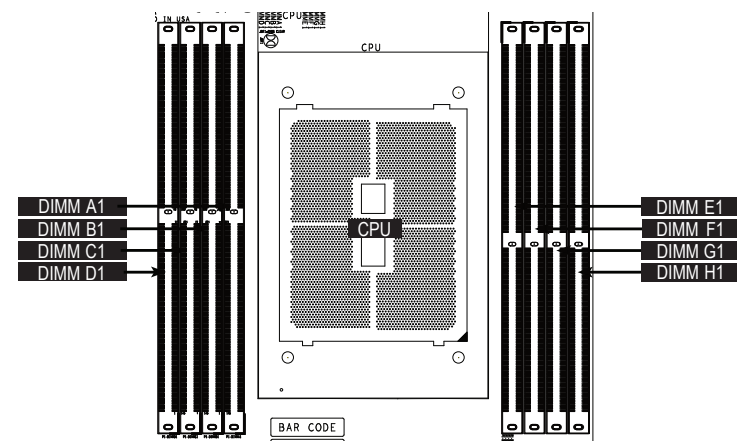
# SUPERMICR SuperServer AS-2014S-TR Quick Reference Guide

## Board Layout



Item	Description	Item	Description
1	JWD1 (Watch Dog Control)	15	System cooling fan headers
2	Unit ID switch (push-button toggle switch ON/OFF)	16	Internal SATA Ports
3	Back panel VGA port	17	Chassis intrusion header
4	Back panel LAN1, LAN2 connectors	18	SATA DOM power connector
5	Back panel USB 3.0 ports	19	Internal SATA Ports
6	Dedicated IPMI LAN port	20	SATA DOM power connector
7	Rear panel COM port #1	21	UID switch header
8	12V 8-pin CPU core power supply connector	22	Front control panel
9	System cooling fan headers	23	Chassis overheat header
10	24-pin ATX power supply connector	24	Internal USB 3.0 header (USB 4/5)
11	12V 8-pin CPU core power supply connector	25	4-pin BMC external IC header
12	Power supply SMBus I2C header	26	Front panel external speaker header
13	System cooling fan headers	27	Onboard CMOS battery
14	Stand by power header	28	JNVMe0/SATA0-7 switch

## Memory



### DIMM Module Population Sequence

When installing memory, please keep the following in mind:

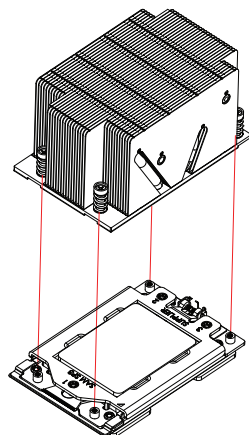
- It is recommended that DDR4 DIMM modules of the same type, size and speed should be installed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (1 or 3 modules installed). However, to achieve the best memory performance, a balanced memory population is recommended.

### Processors and Their Corresponding Memory Modules

CPU#	Channel							
	D1	C1	B1	A1	E1	F1	G1	H1
<b>1 DIMM (supported but not recommend)</b>								
CPU1		✓						
<b>2 DIMMs (supported but not recommend)</b>								
CPU1	✓	✓						
<b>4 DIMMs (conditionally recommended if 32 cores or fewer)</b>								
CPU1	✓	✓					✓	✓
<b>8 DIMMs</b>								
CPU1	✓	✓	✓	✓	✓	✓	✓	✓

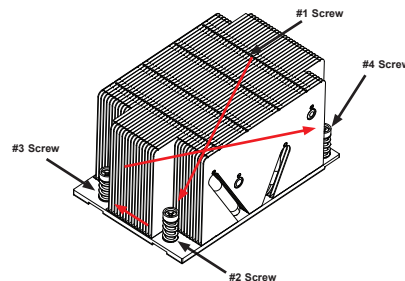
## Heatsink Installation

### 1. Mounting the Heatsink



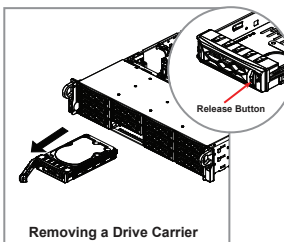
### 2. Securing the Heatsink

Using a diagonal pattern and a Torx T20 driver, tighten the four heatsink screws evenly to 16.1 kgf-cm (14.0 lbf-in) torque.



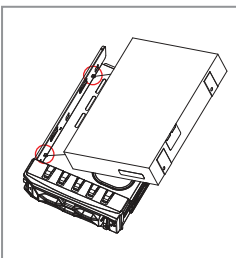
## Hard Drive Installation

### Removing a Hot-Swap Drive Carrier from the System



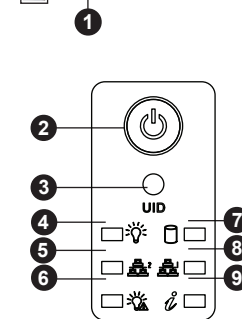
- Press the release button on the drive carrier, which will extend the drive carrier handle.
- Use the drive carrier handle to pull the drive out of the chassis.

### Installing a 3.5" Drive



- Remove the dummy drive, which comes pre-installed in the drive carrier. Pull out the two locking clasps on the right outside of the carrier and lift out the dummy drive.
- Position the drive above the carrier with the PCB side facing down and the connector end toward the rear of the carrier.
- Tilt the drive to insert it onto the two posts on the left inside of the carrier.
- Push the right side of the drive fully into the carrier and allow the two spring locking clasps to secure the drive.
- Insert the drive carrier into its bay, keeping the release button on the right. When the carrier reaches the rear of the bay, the release handle will retract.
- Push the handle in until it clicks into its locked position.

## Front View & Interface



Item	Description
1	Service/Asset Tag with BMC Password
2	Power Button
3	UID Button
4	Power LED
5	NIC2 LED
6	Power Fail LED
7	HDD LED
8	NIC1 LED
9	Information LED

## Rear View



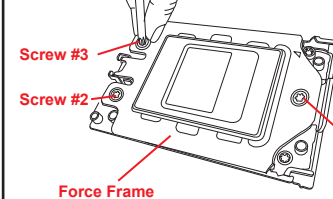
Item	Description
A	Two 920W Redundant Power Supply Modules*
B	Two hot-swap 2.5" SATA drive bays (optional)
C	COM Port
D	IPMI LAN Port
E	Four USB 3.0 Ports
F	LAN Ports
G	VGA Port
H	UID LED

Expansion Slots	
Item	Description
1	PCIe 4.0 x16 (low-profile)
2	PCIe 4.0 x8 (low-profile)
3	PCIe 4.0 x16 (low-profile)
4	PCIe 4.0 x8 (low-profile)
5	PCIe 4.0 x16 (low-profile)
6	PCIe 4.0 x16 (low-profile)
7	PCIe 4.0 x16 (low-profile)

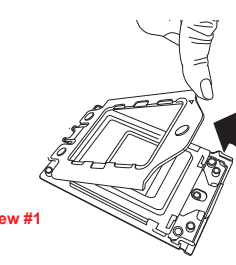
## CPU Installation

### Processor Installation

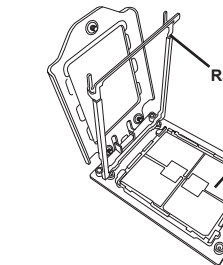
1. Removing the Processor Force Frame  
Use a Torx T20 driver to loosen the screws holding down Force Frame in the sequence of 3-2-1. The screws are numbered on the Force Frame next to each screw hole.



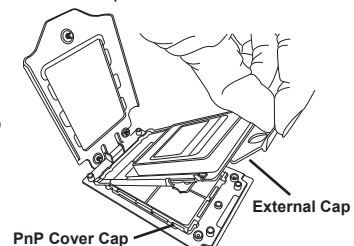
### 2. Raising the Force Frame



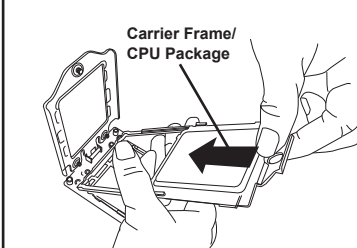
### 3. Lifting the Rail Frame



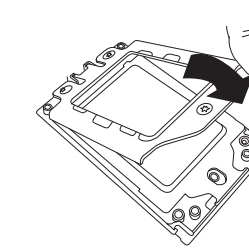
### 4. Removing the External Cap and PnP Cover Cap



### 5. Inserting the Carrier Frame/CPU Package

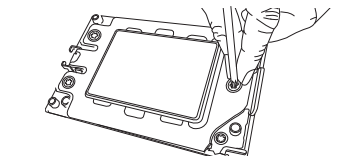


### 6. Lowering the Force Frame

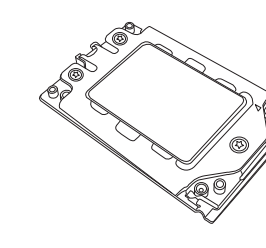


### 7. Securing the Force Frame

Secure the screws in the order 1-2-3, tightening to 16.1 kgf-cm (14 lbf-in) of torque. The Force Frame secures both the Rail Frame and CPU Package. Caution: Tightening must be executed in proper 1-2-3 sequence to avoid causing catastrophic damage to the socket or CPU Package.



### 8. The Force Frame Secured



## Default Cable Routing

MB/AOC Connector	BP/Riser	Drive Qty/PCIe	MC Cable P/N
PCIe1A (NVME0/1)	CN3 (RSC-D2-666G4)	PCIe x16	CBL-SAST-1297LP-85
PCIe1B (NVME2/3)	CN4 (RSC-D2-666G4)		CBL-SAST-1297LP-85
PCIe2A/2B (NVME4/5)	CN3 (RSC-D2R-666G4)	PCIe x16	CBL-SAST-1296LP-85
PCIe2C/2D (NVME 6/7)	CN4 (RSC-D2R-666G4)		CBL-SAST-1296LP-85
SATA4-7 (NVME9)	CN1 (BPN-SAS3-LA26A-N12)	4 SATA Drives	CBL-SAST-1285LP-100
SATA8-15 (NVME12/13)	CN2/CN3 (BPN-SAS3-LA26A-N12)	8 SATA Drives	CBL-SAST-1236-100

## 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.

**WARNING:**  
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>

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>