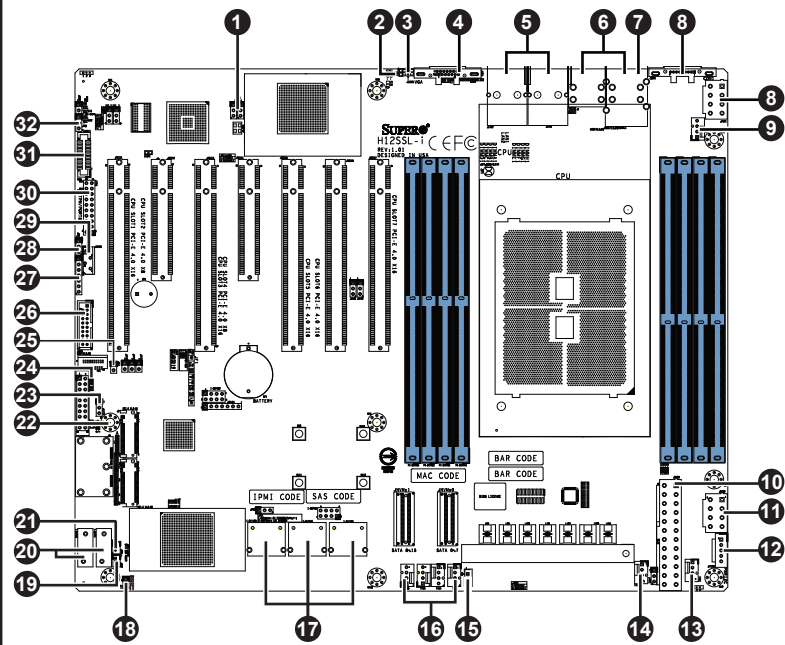
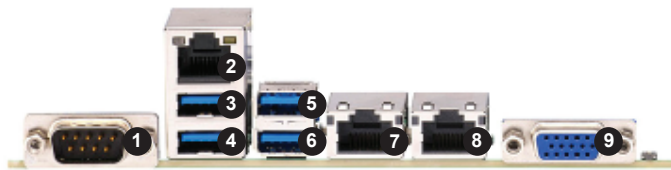


## Board Layout



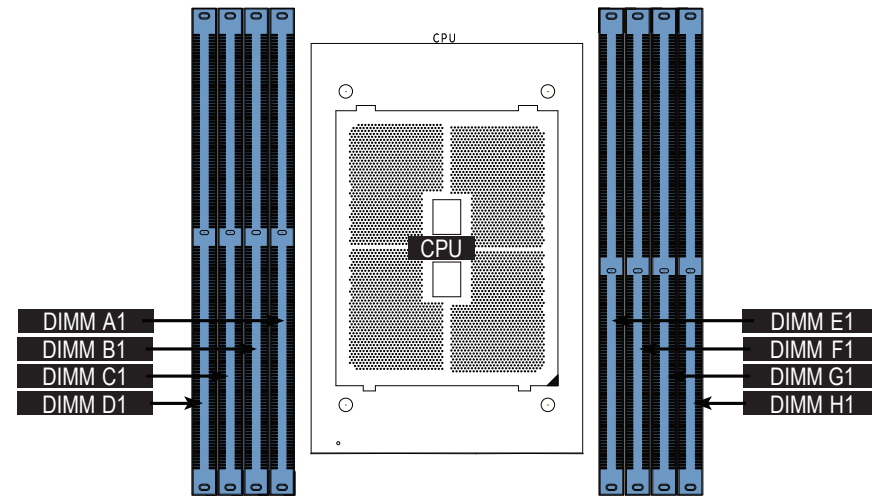
No.	Description	No.	Description
1	LAN Enable / Disable	17	System cooling fan headers
2	Rare unit ID LED	18	Chassis intrusion header
3	Unit ID switch	19	SATA DOM power connector
4	Back panel VGA port	20	Internal SATA Ports
5	Back panel LAN1, LAN2 connectors	21	SATA DOM power connector
6	Back panel USB 3.0 ports	22	Power OK LED
7	Dedicated IPMI LAN port	23	UID Switch Header
8	COM port	24	Front control panel
9	12V 8-pin CPU core power supply connector	25	Chassis overhead header
10	24-pin ATX power supply connector	26	Internal USB 3.0 header
11	12V 8-pin CPU core power supply connector	27	Front panel external speaker header
12	Power supply SMBus I <sup>2</sup> C header	28	Watch Dog control
13	System cooling fan headers	29	4-pin BMC external IC header
14	System cooling fan headers	30	Trusted Platform Module
15	Stand by power header	31	NCSI header
16	System cooling fan headers	32	VGA Enable/Disable

## Back Panel I/O Connectors



No.	Description	No.	Description	No.	Description
1	COM Port	4	USB 1 (3.0)	7	LAN Port 1
2	IPMI LAN Port	5	USB 2 (3.0)	8	LAN Port 2
3	USB 0 (3.0)	6	USB 3 (3.0)	9	VGA Port

## Memory



### DIMM Installation

- Follow the instructions given in the memory population guidelines listed in the previous sections to install memory modules on your motherboard. For the system to work properly, please use memory modules of the same type and speed on the motherboard. (See warnings below.)
- Push the release tabs outwards on both ends of the DIMM slot to unlock it.
- Align the key of the DIMM with the receptive point on the memory slot.
- Align both ends of the module with the receptive points on the ends of the slot.
- Use two thumbs together to press the DIMM straight down into the slot until it snaps into place.
- Press the release tabs to the lock positions to secure the DIMM into the slot.

### Populating RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS DDR4 Memory Modules with AMD EPYC<sup>®</sup> 7002/700 Processors

Type	DIMM Population	Maximum DIMM Capacity (GB)		Maximum Frequency (MHz)
		1 Channel	8 Channel	
RDIMM	1R	32GB	256GB	3200
	2R or 2DR	64GB	512GB	3200
LRDIMM 3DS	2S2R	128GB	1TB	3200
	2S4R	256GB	2TB	3200
3DS RDIMM	2S2R	128GB	1TB	3200
	2S4R	256GB	2TB	3200

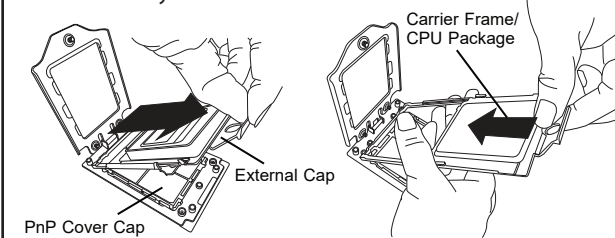
### Processors and Their Corresponding Memory Modules

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

## CPU Installation

### Installing the CPU

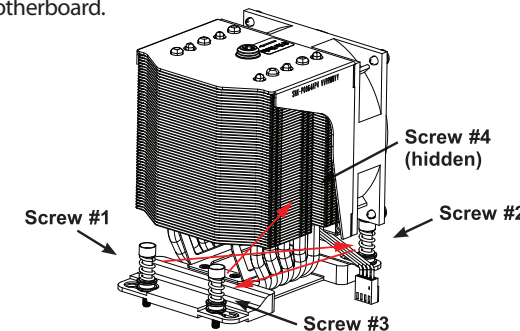
- Remove the external cap from the Rail Frame by pulling it upwards through the rail guides on the rail frame.
- Slide the carrier frame/CPU package downwards to the bottom of the rail frame. Ensure the flanges are secure on the rails as you lower it downwards.



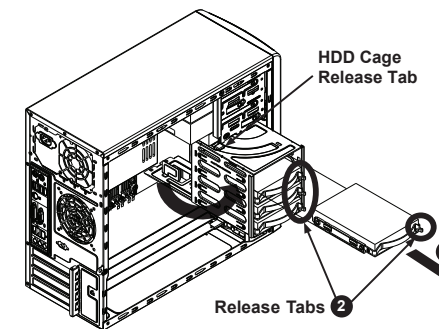
## Heatsink Installation

### Installing the CPU Heatsink

Using a diagonal pattern, tighten the four screws down on the heatsink in a clockwise fashion till it is secure. The heatsink will now be secured and you have finished installing the processor and heatsink onto the motherboard. Repeat this procedure for any remaining CPU sockets on the motherboard.



## Hard Drives Installation



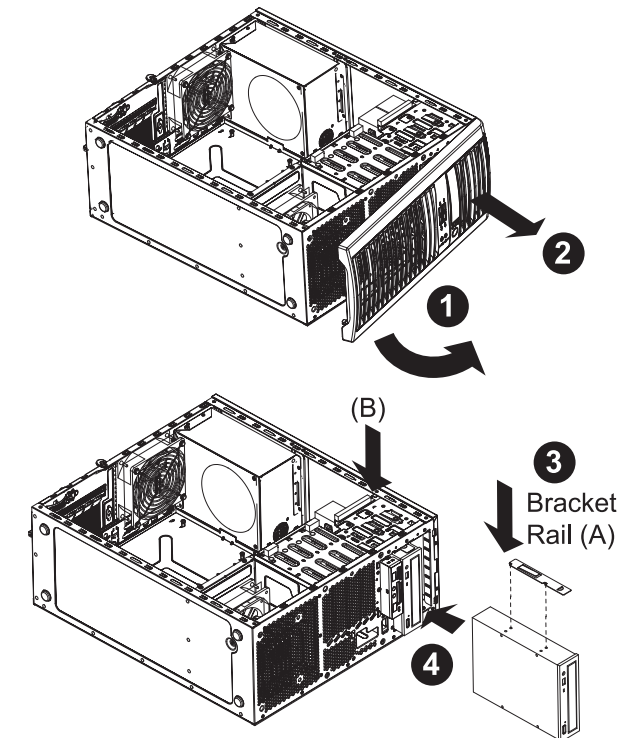
### Removing and Installation 3.5" Hard Drives

- Disconnect the chassis from any power source.
- Rotate the hard drive cage outward 90 degrees.
- Disconnect all of the cables from the hard drive.
- Press the release tab on the side of the hard drive carrier that is to be removed from the hard drive cage.
- Gently slide the hard drive carrier out of the hard drive cage.

## Installing an Optical Device

Begin by removing power from the system

- Remove the front bezel from the chassis by lifting it upwards from the bottom and pulling off the front of the chassis.
- Remove the cover plate from the optical device slot on the front of the chassis.
- Install the bracket rail (A) onto one side of the device by inserting the pins of the bracket into the mounting holes on the side of the device.
- Slide the device into the chassis.
- If desired, screws may be used to secure the device into chassis.
- Attach the power and data cables to the drive.
- Replace the chassis cover before restoring power to the system.



## 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.

### WARNING:

This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

