



WEEE DISASSEMBLY INSTRUCTIONS

SUPERMICRO ASG-1115S-NE316R ENCLOSURE

Abstract

This document provides clear guidance for end-of-life recyclers on how to identify and disassemble reportable materials in compliance with the Waste Electrical and Electronic Equipment (WEEE) directive.

Table of Contents

1. Product Views.....	3
2. Reportable Materials on ASG-1115S-NE316R	4
3. Disassemble Instructions	5
3.3 Step-by-Step Disassembly Instructions	8
1. Removing Cable and Chassis Top Cover	8
2. Removing Hard Disk Drive (HDD) / Solid State Drive (SDD)	9
3. Removing Power Supply	10
4. Removing Backplane	11
5. Removing Fan	11
6. Removing AIOM Card	12
7. Removing the Air shroud, Riser	13
8. Removing Processor	14
9. Removing DIMM.....	15
10. Removing Motherboard.....	15

1. Product Views

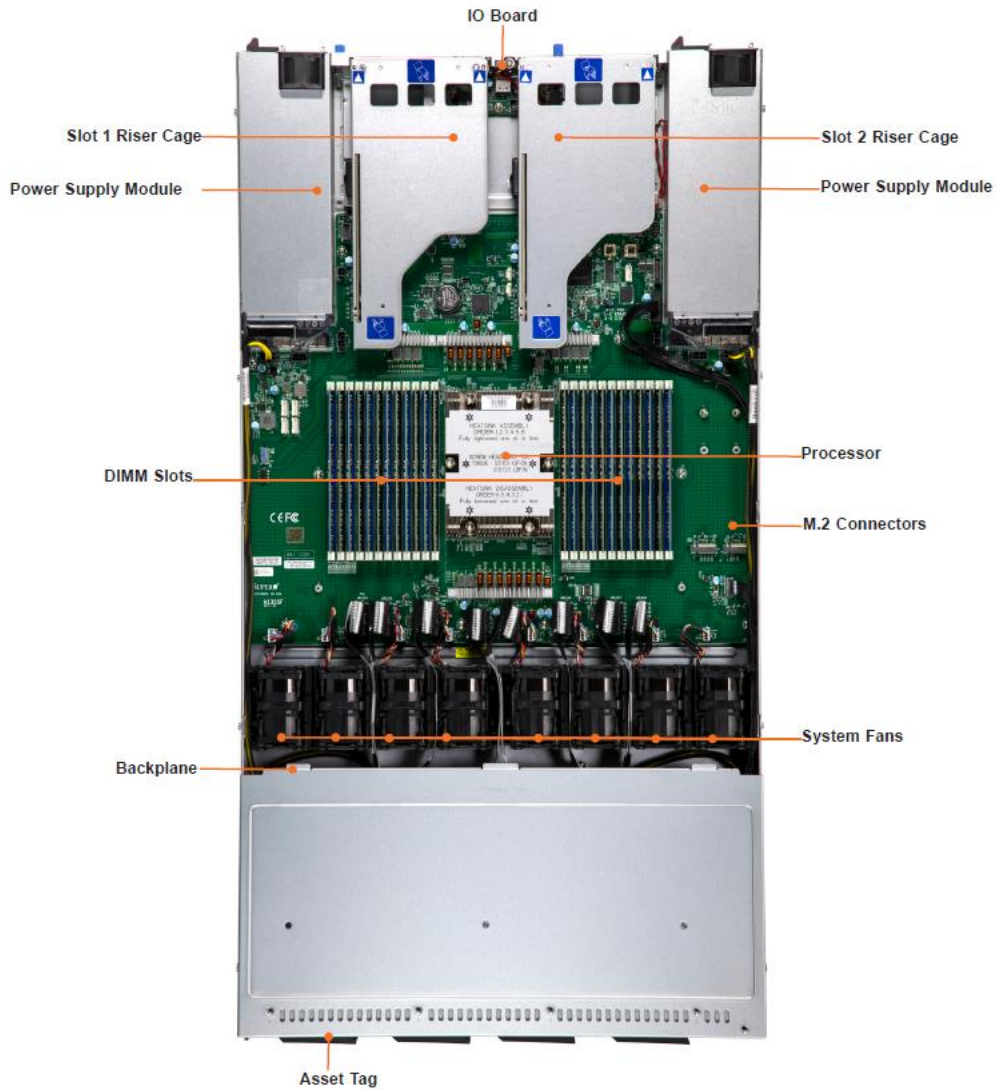
Front view



Rear view



Product construct view



2. Reportable Materials on ASG-1115S-NE316R

According to Article 8(2) and Annex VII of WEEE directive 2012/19/EU, below materials and components should be selectively treated.

Description	Notes	No.	Quantity
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface greater than 10 sq cm (Depending on the configuration)	2.4,3.5,4.2,4.1,6.1, 8.2, 9.1,10.1,	28
Batteries	All types, including standard alkaline and lithium coin or button style batteries	10.2	1
Mercury-containing components	For example, mercury in lamps, display backlights, scanner lamps, switches, batteries		
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps		
Cathode Ray Tubes (CRT)			
Capacitors / condensers (Containing PCB/PCT)			
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height	Depending on the power supply model	3.6	2
External electrical cables and cords		1.1	2
Gas Discharge Lamps			
Plastics containing Brominated Flame Retardants			
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste), and toner	Include the cartridges, print heads, tubes, vent chambers, and service stations.		
Components and waste containing asbestos			
Components, parts, and materials containing refractory ceramic fibers			
Components, parts, and materials containing radioactive substances			




3. Disassemble Instructions

The intent of this document is to provide guidance to recyclers on the presence of materials and components at the product / family level, as required by the EU WEEE Directive 2012/10/EU. This document should also help direct recyclers to proper methods for removing parts and general product disassembly instructions.

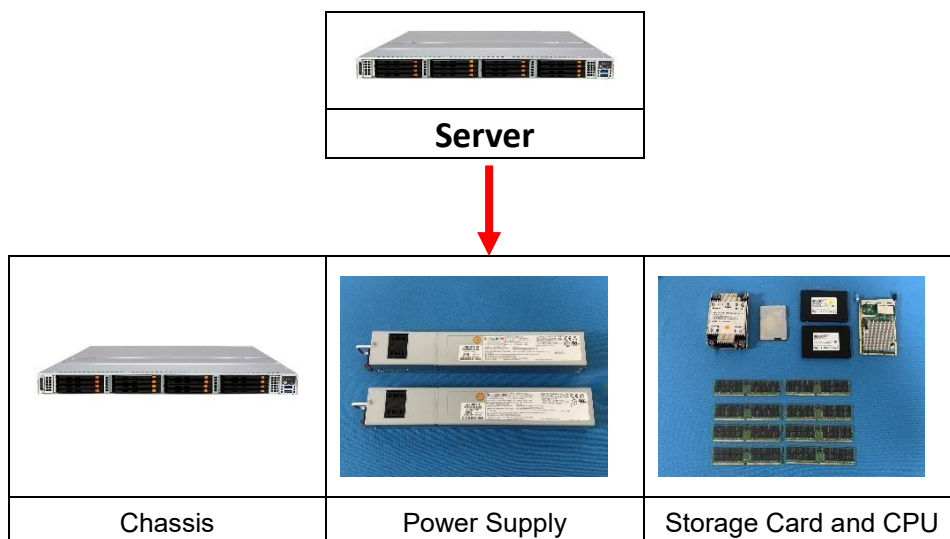
This chapter consists of three subsections:

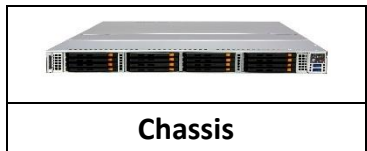
Recommended disassembly tools, disassembled flowchart, and step-by-step disassembly instructions to direct recycler proper methods to treat.



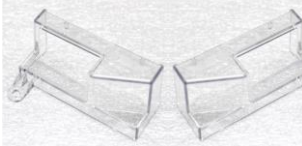




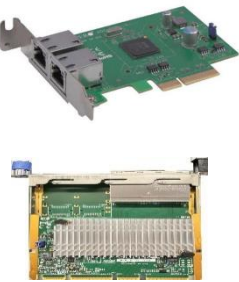



3.1 Recommended Disassembly Tools

Disassembly tool	T30-bit screwdriver	
	Cross screwdriver	
	Flathead screwdriver	

3.2 Disassembled flowchart

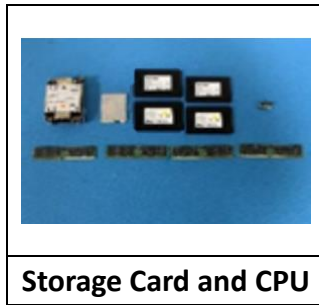




			
<p>Backplane *2</p>	<p>Air Shroud</p>	<p>Plastics Cover</p>	<p>Cable</p>
			
<p>Cable *8</p>	<p>Motherboard</p>	<p>Battery</p>	<p>Add-On Card</p>
			
<p>Riser Card</p>	<p>Fan</p>	<p>Screw, Stand-off</p>	



Power Enclosure*2	Screw and Standoff*2 Set	Power Supply Module*2

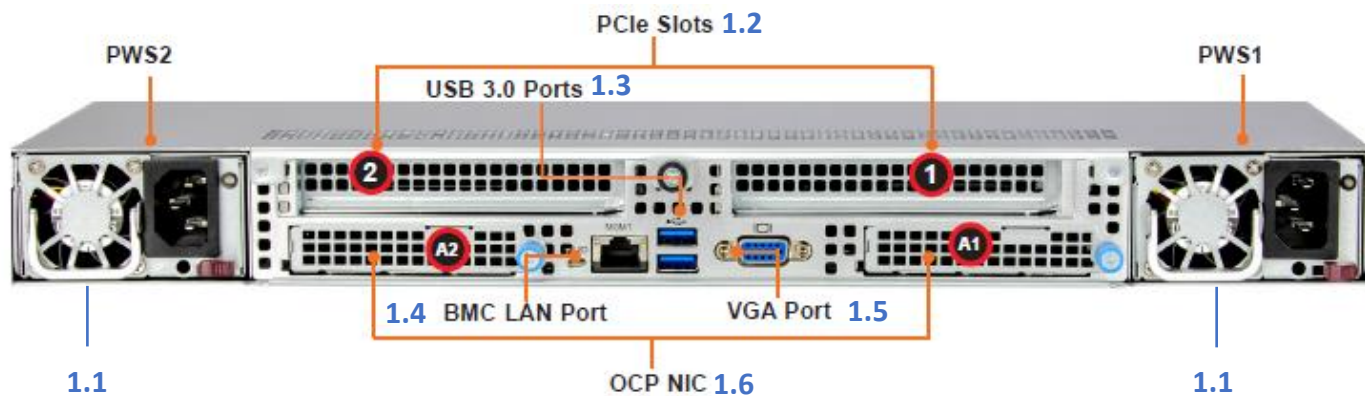


Heat Sink	Processor	Hard Drive*2
AIOM *2	DIMM *3 Set	Power Cable

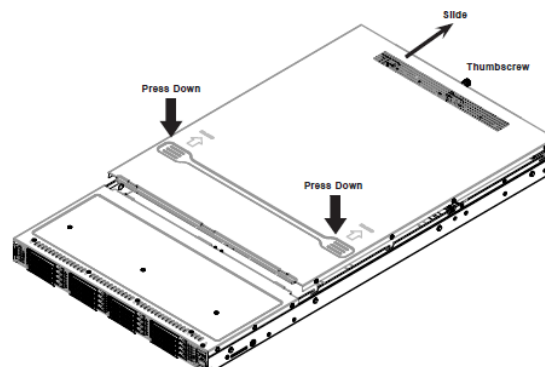
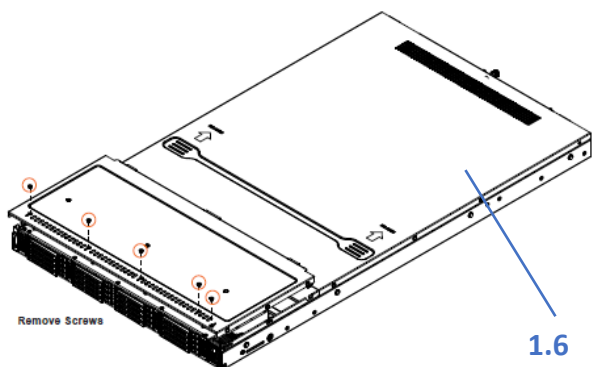
3.3 Step-by-Step Disassembly Instructions

1. Removing Cable and Chassis Top Cover

1. Use the operating system to power down the system.
2. After the system has completely shut-down, disconnect the power cords from the power supply modules.
3. Remove all cables/ unit from the server IO port.



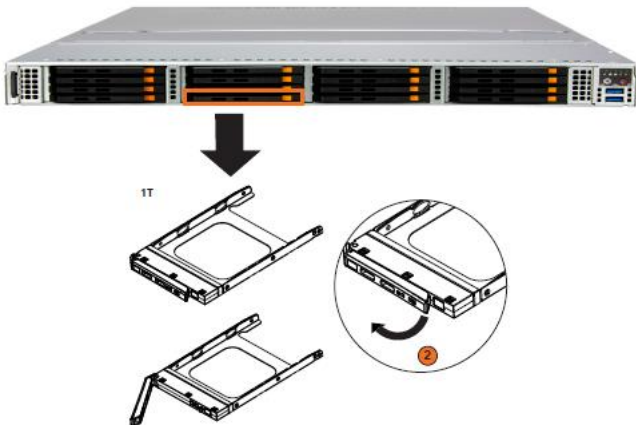
4. Remove the five screws securing the front side of the cover, then slide out and lift the cover.
5. Loosen the thumbscrew at the rear of the chassis. Press down on the area near the arrows. Slide the cover and lift off.



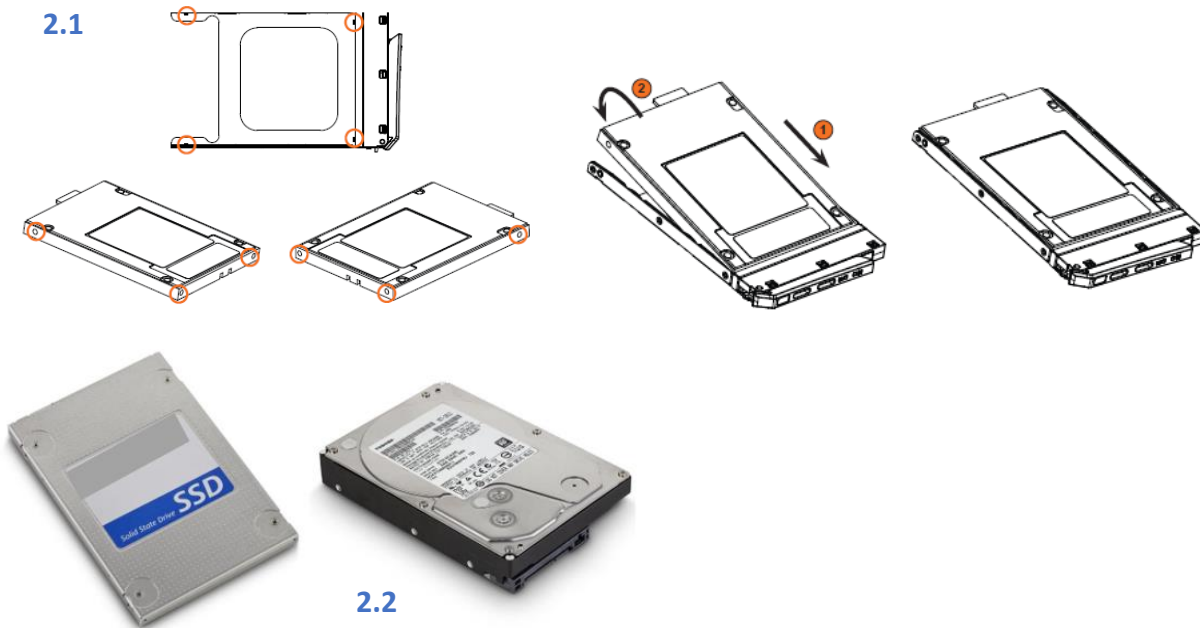
No.	Description
1.1	Power Cable
1.2	PCIe Slots
1.3	USB Port
1.4	BMC LAN Port
1.5	VGA Ports
1.6	Chassis

2. Removing Hard Disk Drive (HDD) / Solid State Drive (SDD)

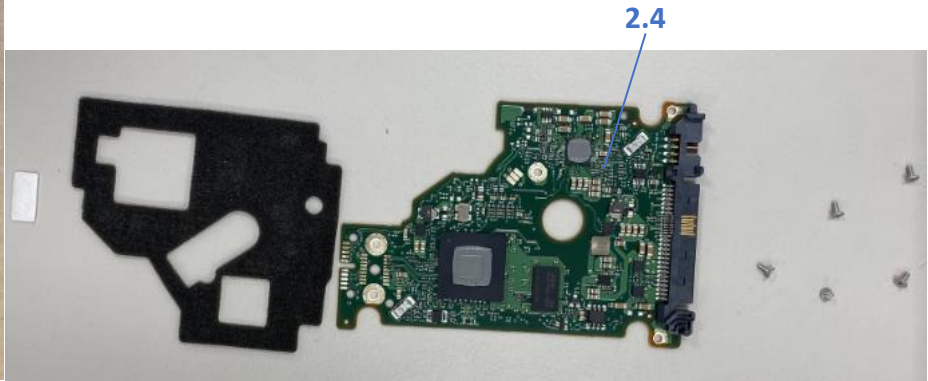
1. Push the release button on the drive carrier, which will extend the drive bay handle
2. Use the drive bay handle to pull the drive carrier out of the chassis



3. Remove HDD or SSD from dummy tray



4. Use a cross screwdriver to remove drive enclosure

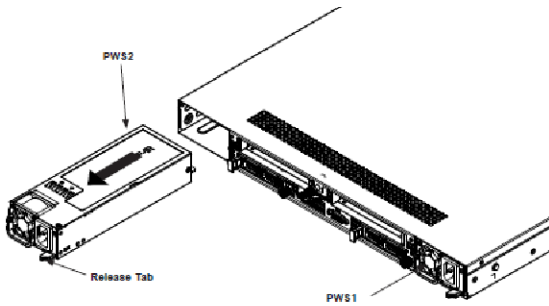


6. Use a cross screwdriver to remove screws and lift off the PCB

No.	Description
2.1	Dummy Tray
2.2	HDD/ SSD
2.3	Hard Drive Enclosure
2.4	Hard Drive PCB

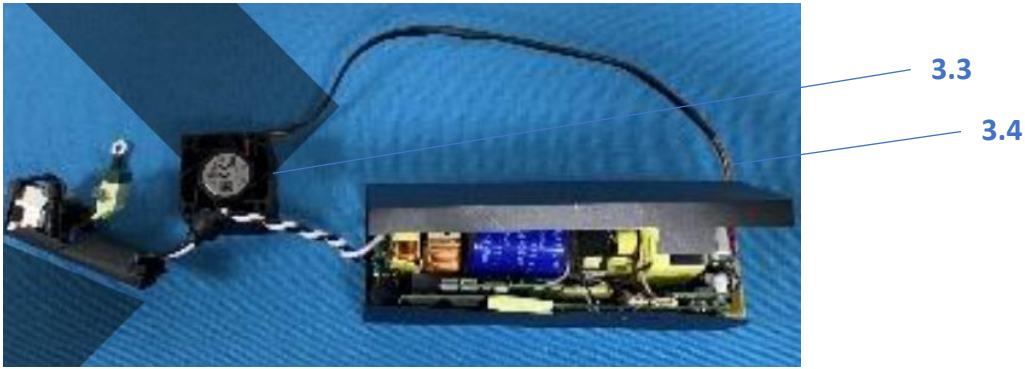
3. Removing Power Supply

1. Press the release tab on the failed power supply.
2. Use the handle to gently slide the power supply out the back of the chassis.



3. Remove the screw from the enclosure





4. Cut the power leads connected to the fan and lift the main board from the chassis



No.	Description
3.1	Power Supply
3.2	Power Enclosure
3.3	Fan
3.4	Fan Cable
3.5	Power Module PCB
3.6	Capacitor

4. Removing Backplane

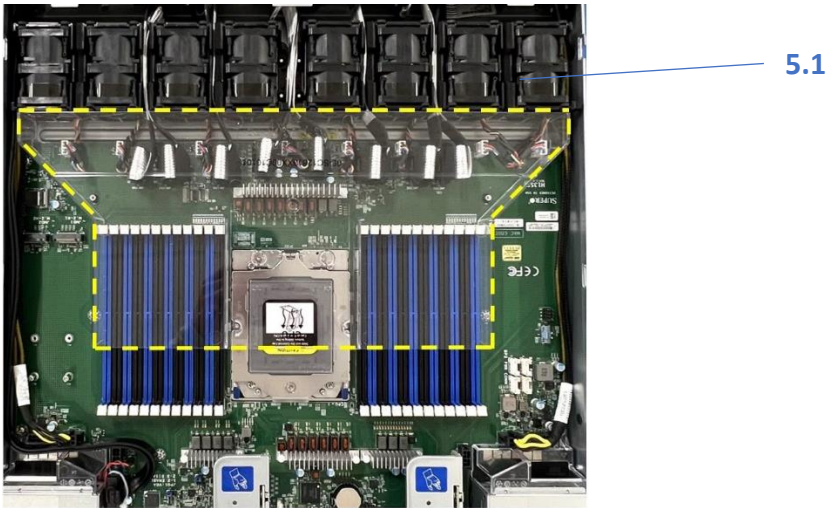
1. Remove the backplane screws from the chassis



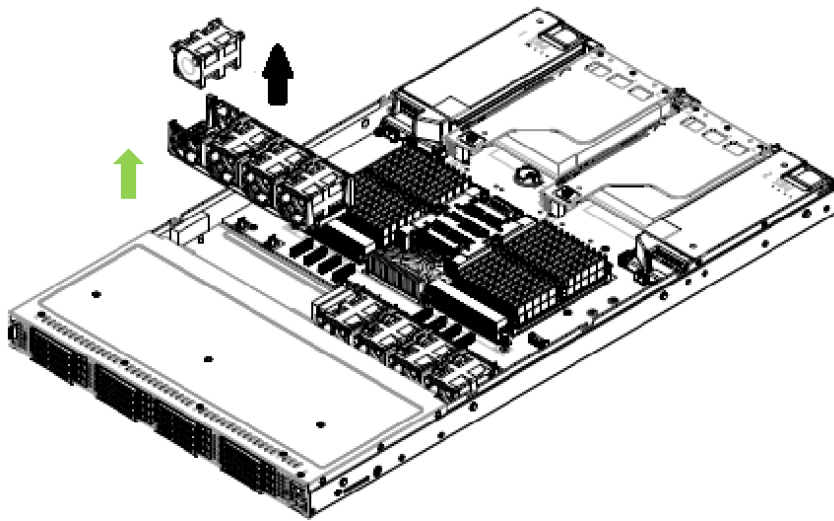
No.	Description
4.1	Backplane

5. Removing Fan

1. Disconnect the chassis fan to the motherboard Fan connector



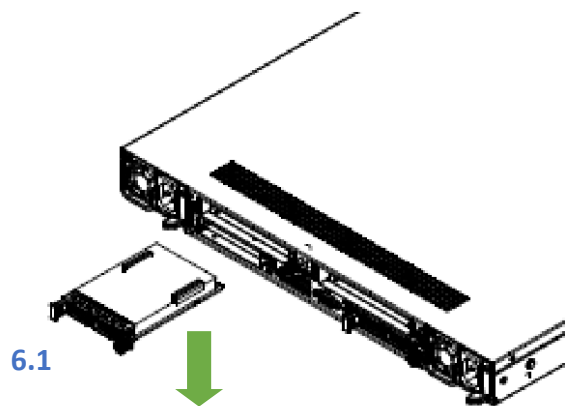
2. Lift the fan out of the chassis.

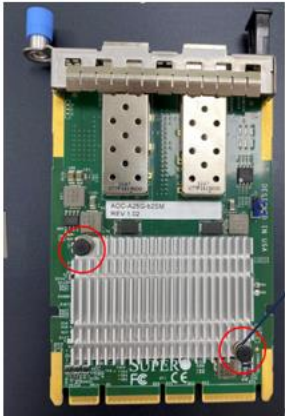


No.	Description
5.1	Cooling Fan

6. Removing AIOM Card

1. Release thumbscrew and pull the AIOM out of chassis.
2. Press the pin and remove the pin and take the PCB from AIOM





Press the pin

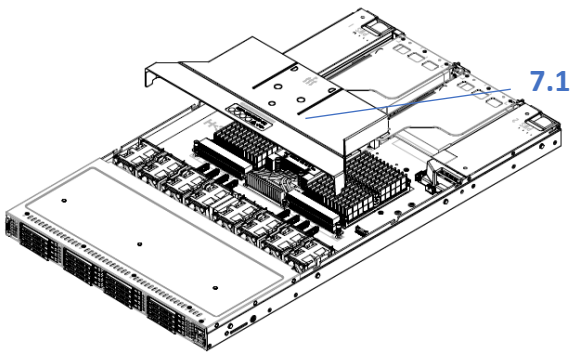


6.2

No.	Description
6.1	AIOM Card
6.2	AIOM PCB

7. Removing the Air shroud, Riser

1. Lift the air shroud out of the chassis by hand



2. Remove screws each from the riser card bracket

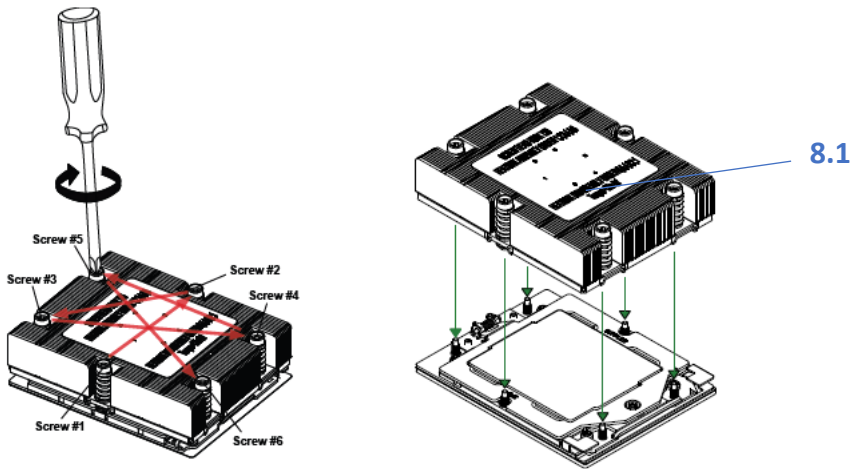
3. Take the riser card and bracket away from the chassis



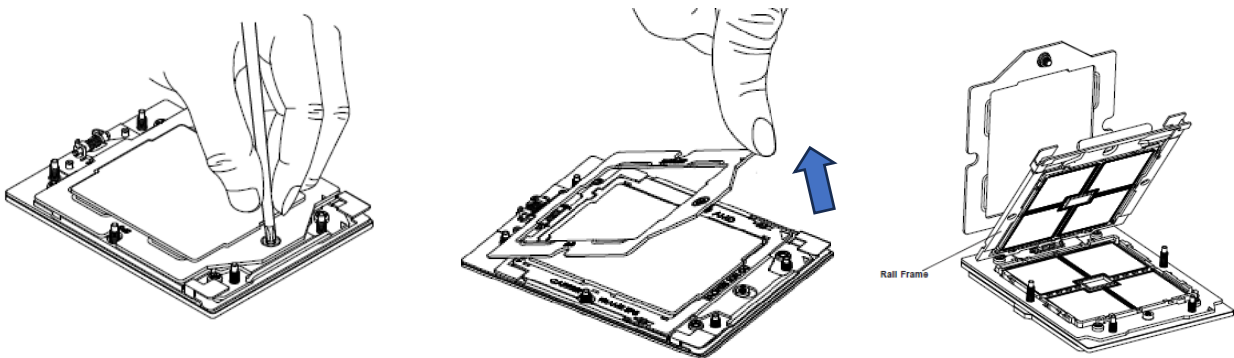
No.	Description
7.1	Air shroud
7.2	Riser Card
7.3	Riser Bracket

8. Removing Processor

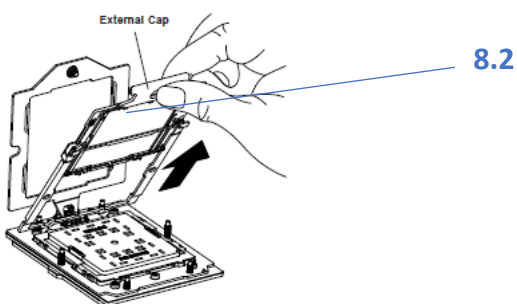
1. Unscrewing the screw and remove the heat sink from CPU package.



2. Unscrewing the CPU package screw, then lift up the force frame and rail frame .



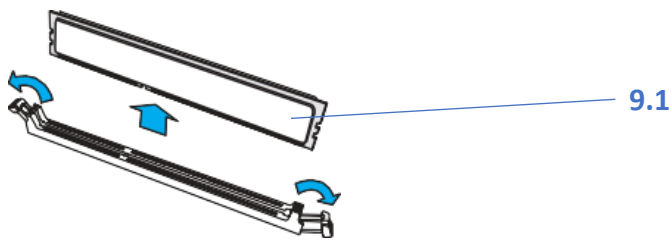
3. Pull up the CPU from rail frame.



Note: Please handle the processor with care to avoid damaging it or its pins

No.	Description
8.1	Heat Sink
8.2	Processor

9. Removing DIMM

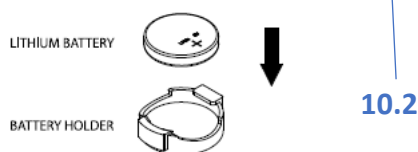


1. Hand press both release tabs on the ends of the DIMM module to unlock it
2. Once the DIMM module is loose, remove it from the memory slot

No.	Description
9.1	DIMM

10. Removing Motherboard

1. Remove screws, lift out motherboard
2. Push aside the small clamp that covers the edge of the battery. When the battery is released, lift it out of the holder
3. When the motherboard is removed, the node enclosure can be recycled



No.	Description
10.1	Motherboard
10.2	Battery

Note: Repeat steps 1-12 of each node(A,B,C,D) disassembled, then the chassis enclosure can be recycled