

WEEE DISASSEMBLY INSTRUCTIONS

SUPERMICRO AS -2115GT-HNTF 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.

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1. Product Views

Front view



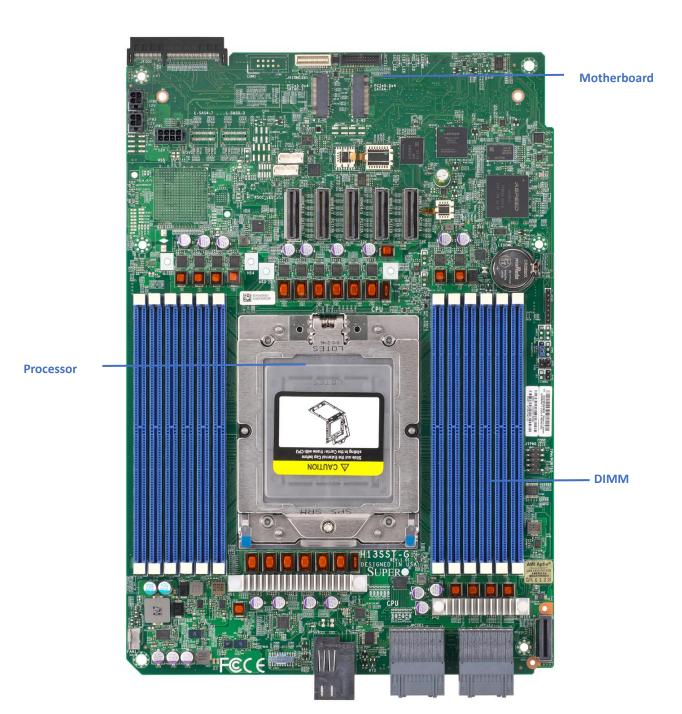
Rear view



Product construct view



Hard Disk Drive/ Solid
State Drive



2. Reportable Materials on AS -2115GT-HNTF

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 system configuration)	3.5, 5.1, 7.2,8.1, 9.1,11.1, 13.1	65
Batteries	All types, including standard alkaline and lithium coin or button style batteries	11.2	4
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		12.1, 12.2	4
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			

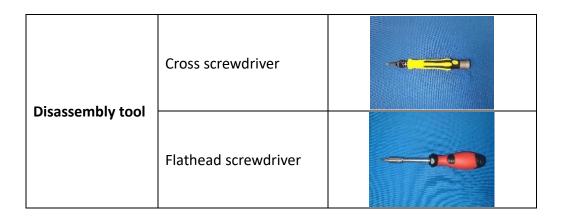
3. Disassemble Instructions

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.

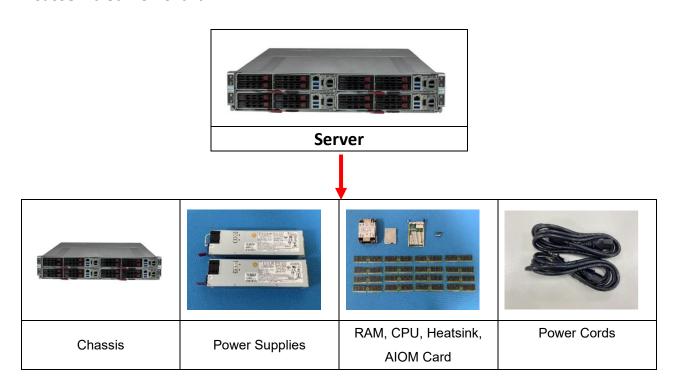
This chapter consists of three subsections:

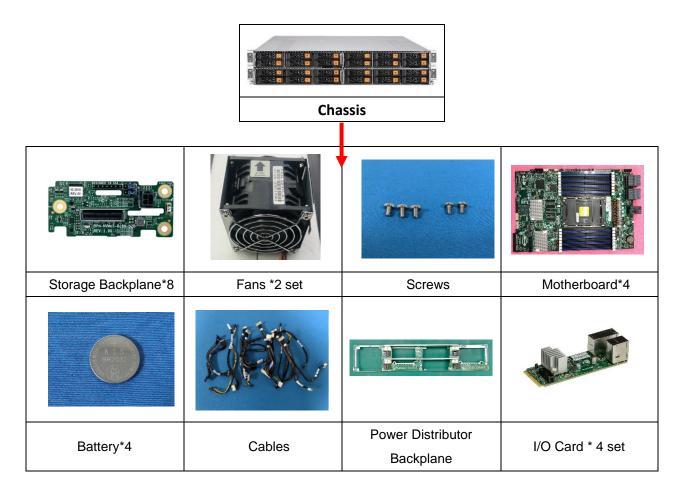
Recommended disassembly tools, disassembled flowchart, and step-by-step disassembly instructions to direct recycler proper methods to treat.

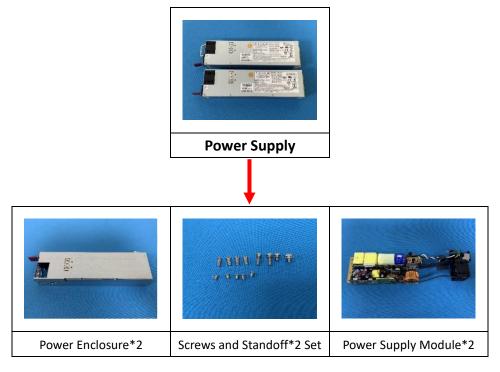
3.1 Recommended Disassembly Tools

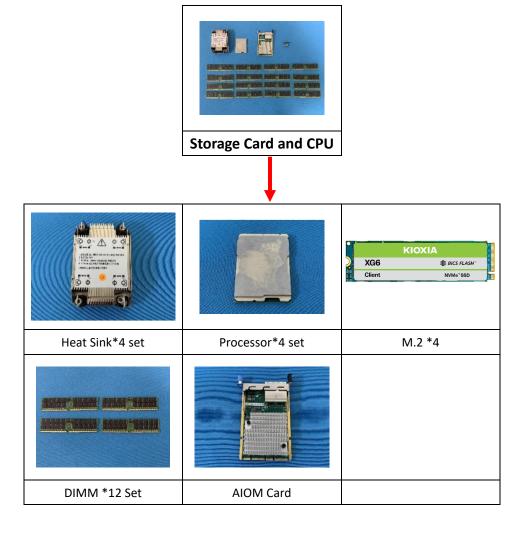


3.2 Disassembled flowchart









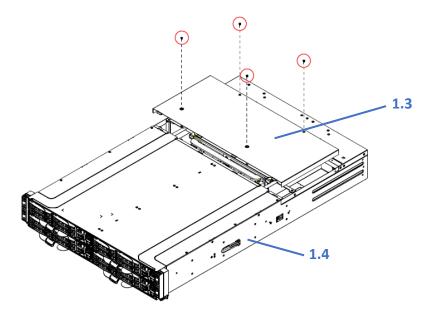
3.3 Step-by-Step Disassembly Instructions

1. Removing Cable and Chassis Top Cover

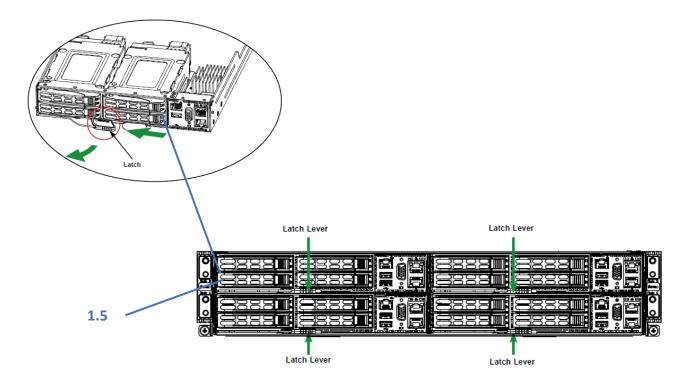
- 1. Use the operating system to power down the system.
- 2. After the system has completely shut-down, disconnect the power cords from the power supply modules.
- 3. Remove all cables/ unit from the server IO port.



4. The chassis top cover can be lifted off after removing the four screws as shown below.



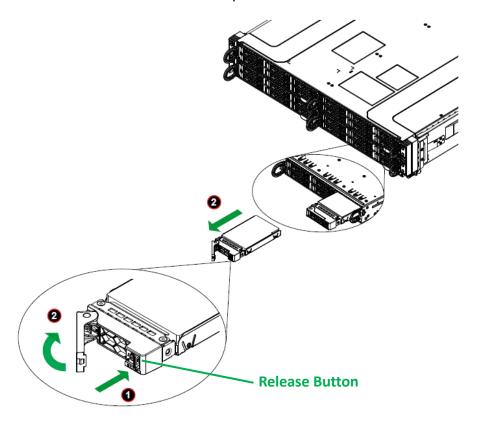
- 5. Rotate the latch.
- 6. Pull out the latch lever and use it to slide the node out from the chassis front.



No.	Description
<u>1.1</u>	Power Cable
1.2	Locking Clip
1.3	Top Cover
1.4	Chassis
1.5	System Node

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

- 1. Press the release button to extend the drive carrier handle.
- 2. Use the drive carrier handle to pull the drive out of the chassis.



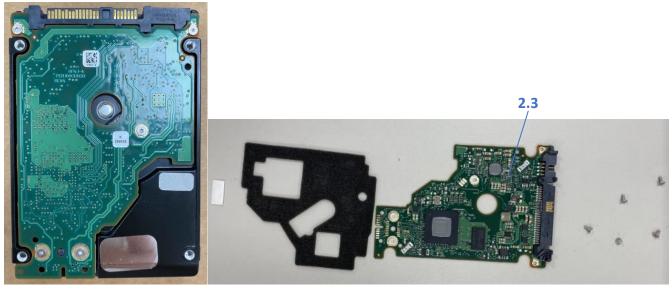
3. Push up from the bottom of the SSD as shown below to remove it from the drive tray.





2.2

4. Use a cross screwdriver to remove drive enclosure



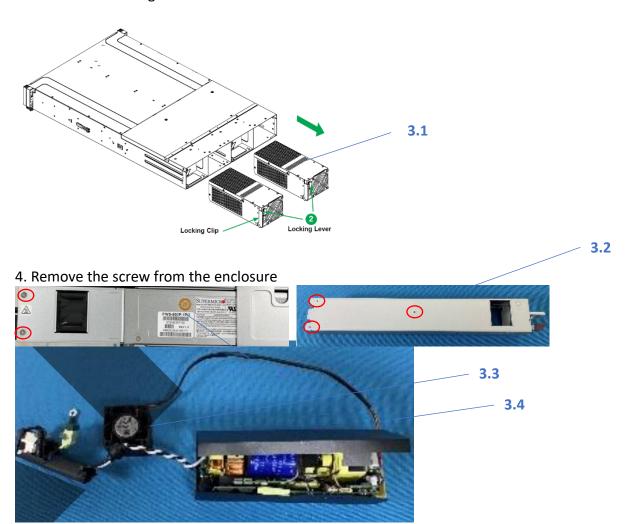
5. Use a cross screwdriver to remove screws and lift off the PCB

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

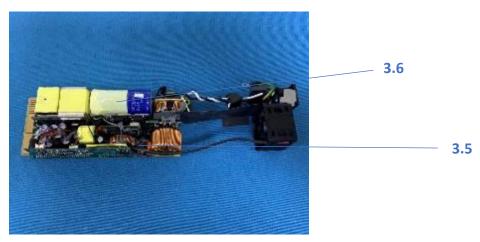
3. Removing Power Supply

- 1. Ensure the system is unplugged and powered down.
- 2. Release the locking clip to unlock the power supply module

3. Pull out the locking lever and remove the unit.



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



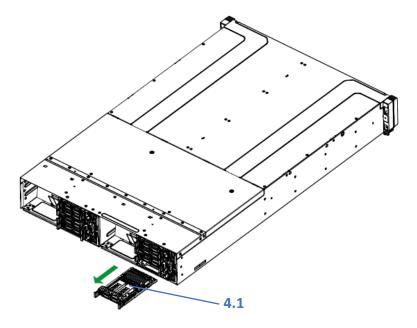
6. Use a flathead screwdriver to cut the capacitor adhesive and pin solder.



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 Advanced I/O (AIOM) Network Card

- 1. Loosen the thumbscrew using your hand.
- 2. Slide the AIOM out of the opening.



No.	Description
4.1	AIOM Network Card

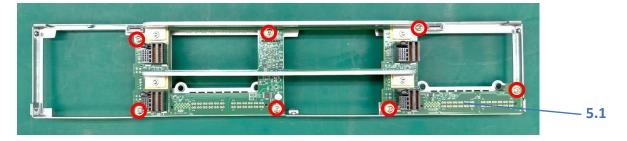
5. Removing Power Distributor Backplane

1. Unscrew the screws (circled in red) holding the Power Distributor (PDB) bracket from the chassis.





2. Unscrew the PDB backplane from the bracket as shown below.

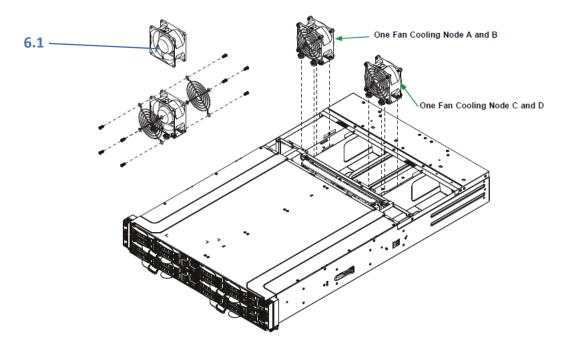


No.	Description
<u>5.1</u>	Power Distributor Backplane

6. Removing Fan

- 1. Disconnect the chassis fan from the midplane as shown below.
- 2. Use a screwdriver to unscrew the 4 screws for each fan from the chassis.

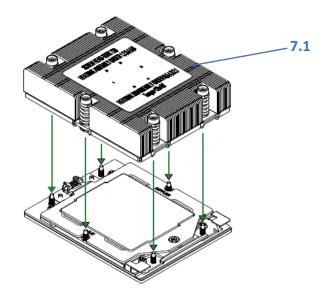
3. Lift the fan housing up and out of the chassis for each fan.



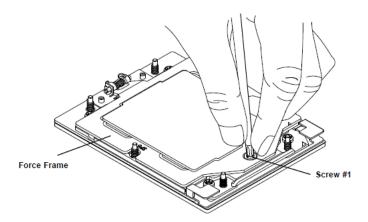
No.	Description
6.1	Cooling Fans

7. Removing Processor

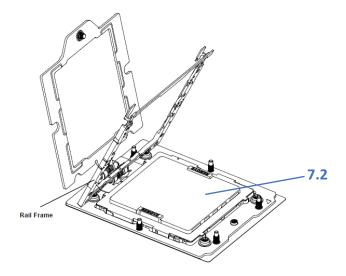
1. Remove the heatsink attached to the top of the CPU package by reversing the installation procedure.



2. Unscrewing the plate and lift the force frame to the vertical position.



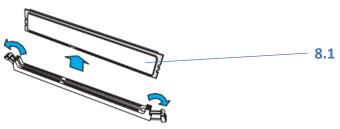
3. Lift the rail frame using the lift tabs near the front end of the rail frame. Note that the rail frame is spring loaded, so be careful lifting it up into a vertical position.



- 4. Grip the handle of the carrier frame and pull upwards to extract it from the rail frame. Return the carrier frame/CPU package to its original shipping container.
- 5. Grip the handle on the external cap and return it to the rail frame sliding it downwards till it rests in the frame.
- 6. Gripping the rail frame, rotate it downwards till it rests above and locks over the socket housing in its horizontal position.
- 7. Push and rotate down the force frame till it is over the external cap and rail frame into a horizontal position.
- 8. While holding down the force frame, secure it back to the socket frame by securing screw in place.

No.	Description
7.1	Heat Sink
7.2	Processor

8. Removing DIMM

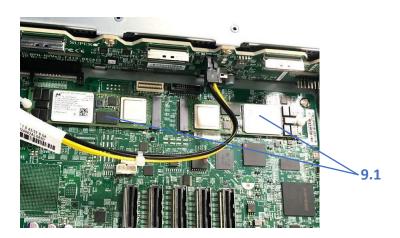


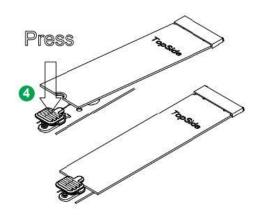
- 1. Hand press both release tabs on the ends of the DIMM module to unlock it
- 2. Once the DIMM module is loose, remove it from the memory slot

No.	Description
8.1	DIMM

9. Removing the M.2 from the Motherboard

- 1. Locate the M.2 on the motherboard near the JMD1 and JMD2 connections and press down on the clip holding the M.2 in place.
- 2. Turn the clip and release the M.2.
- 2. Gently pull the M.2 out of the socket.

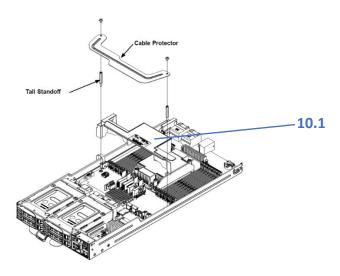




No.	Description
<u>9.1</u>	M.2

10. Removing the Air Shroud

1. Remove the Cable protector and tall standoffs from the node using a screwdriver as shown below.

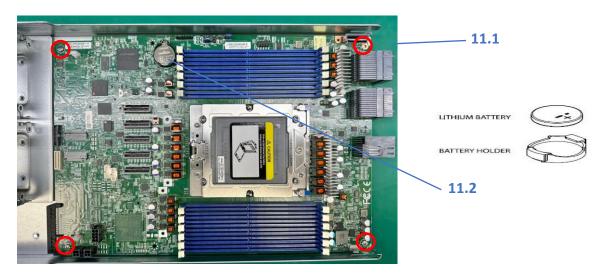


2. Lift and remove the air shroud from the node.

No.	Description
10.1	Air Shroud

11. Removing Motherboard

- 1. Unscrew the screws (circled in red) on the motherboard and lift the motherboard out of the chassis.
- 2. Push aside the small clamp that covers the edge of the battery. When the battery is released, lift it out of the holder.



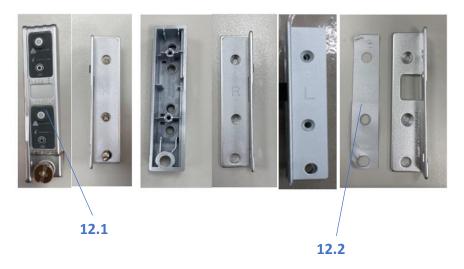
No.	Description
<u>11.1</u>	Motherboard
<u>11.2</u>	Battery

12. Removing Control Panel





1. Remove control panel screw (R and L) from the chassis.



2. Remove backet screw and hand screw (R and L) from control panel and used hand remove backet mylar

No.	Description
<u>12.1</u>	Control Panel Cover L & R
<u>12.2</u>	MYLAR_L & R

When the all the steps are complete, the chassis enclosure can be recycled.