

ACTINA MINI NUC Computers, Mini/Midi Tower - Disposal Instructions

Purpose of the manual:

This manual is designed for use by waste processing plants. It offers the basic disassembly instructions for ACTINA products and notes on disposal of components and materials which need separate processing, as specified in Directive 2002/96/EC on waste electrical and electronic equipment.

List of materials that require separate processing

Туре	Remarks	Quantity
Printed circuit boards	Larger than 10 cm ²	7-12 according to
		specific options
Batteries	All types, including	1
	button cells	
Capacitors, diameter	Inside power unit	1
>25 mm		
External wiring and	Power cable	1
cables		



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1. Tools required



- 1.1 PH2 Phillips screwdriver
- 1.2 Torx TX9 screwdriver
- 1.3 Torx TX20 screwdriver
- 1.4 Slot head screwdriver
- 1.5 Diagonal cutting pliers



2. Disconnecting the power cable

If a power cable is connected to the computer, pull the plug in the direction shown by the arrow to disconnect.

Tools required: none





Note! After disconnecting, the power cable becomes a material that needs separate processing!



3. Opening the tower

Open the 4 tower locking latches on the side panels, then rotate them at 45 degrees clockwise to remove. When unlocked, slide the side panels to the rear to remove them.





4. Removing cables

Disconnect the cables marked with arrows from the motherboard.





5. Removing motherboard

To remove the motherboard with the CPU and memory chips, unscrew the items marked by arrows, then remove the motherboard from the tower.





6. Removing RAM

To take out the RAM chips from the motherboard, slide the locks to the direction shown by the arrow, then remove the chips from their slots. The actual number of memory chips varies according to computer setup.

Tools required: none





Note! The PCBs you retrieve are <10 cm₂ and have to be processed separately!



7. Removing CPU radiator

Unplug the fan, unlock the radiator pins by turning them at 90 degrees, remove the radiator together with the fan.





8. Removing CPU

Use the lever on the right side of the CPU slot to unlock and open it, then remove the CPU.

Tools required: none





Note! The PCB you retrieve is <10 cm₂ and has to be processed separately!



9. Removing lithium battery

Unlock the latch holding the battery in place by sliding it to the direction of the arrow, then remove the battery.

Tools required: none





Note! After disassembly, the battery becomes a material that needs separate processing!



10. Removing motherboard radiators and CPU slots

Remove the securing pins shown by blue arrows, then remove the radiators. Unscrew the items identified with green arrows, then remove the CPU securing module.

Tools required: TX20 screwdriver





Note! The PCB you retrieve is <10 cm₂ and has to be processed separately!



11. Removing power unit

Unscrew the items shown by the arrows and take out the power unit from the tower.





12. Removing power unit cover

Unscrew the items shown by the arrows (one of the screws is positioned under the sticker label) and slide the housing cover upwards to remove it.





13. Removing power unit fan

After removal of the power unit covers, disconnect the fan connector shown by the arrow from the PCB



Unscrew the items shown by the arrows and remove the fan.





14. Removing main PCB of power unit

Cut the wiring off the switch and the mounting of motherboard power supply cables as shown by the arrows.

Tools required: diagonal cutting pliers





Unscrew the items securing the PCB from the housing and remove the PCB together with the cables





15. Removing large-diameter electrolytic capacitor

Cut out the AE identified by the arrow from the PCB removed from the unit.

Tools required: diagonal cutting pliers





Note! After disassembly, the capacitor becomes a material that needs separate processing!



16. Preparing the power unit main PCB for disposal

Cut off the motherboard power supply cables as shown by

the arrow

Tools required: diagonal cutting pliers





Note! The PCB you retrieve is <10 cm₂ and has to be processed separately!



17. Removing optical drive

Unlock the pins shown by the arrows, then pull the optical drive out by sliding it toward the front of the computer case.

Tools required: none



To remove the housing, unlock the latches shown by the arrows and remove the front panel of the drive.

Tools required: slot head screwdriver





To remove the lower cover of the drive, unscrew the 4 items identified with arrows

Tools required: PH2 screwdriver



After removing the lower cover, remove the drive mechanism and separate the 2 PCBs marked with arrows.







Note! The PCB you retrieve is <10 cm₂ and has to be processed separately!

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To separate the drive mechanism from the frame, remove the 2 screws identified with arrows

Tools required: PH2 screwdriver



To remove the plastic piece from the upper cover of the drive, rotate the metal ring to the direction of the arrow





18. Removing hard drives

If the computer is fitted with a 3.5" HDD, take out the securing pins and push the drive toward the rear of the tower.

Tools required: none



To take out the PCB from the hard drive, remove the screws identified with arrows

Tools required: TX9 screwdriver





Note! The PCB you retrieve is <10 cm₂ and has to be processed separately!



If the computer is fitted with a 2.5" HDD, unscrew the 4 items shown by the arrows at the bottom of the tower.

Tools required: PH2 screwdriver



Then remove the 2.5" HDD





Use a slot head screwdriver to separate the upper part from the lower part of the housing, secured with latches, then remove the printed circuit board

Tools required: slot head screwdriver





Note! The PCB you retrieve can be <10 cm² and will then have to be processed separately!



19. Removing tower pieces

Remove the metal slot cover by pushing it inside the tower, in the arrow direction. Tools required: none



Use a slot head screwdriver to open the holders identified with arrows and remove the expansion card securing latch.

Tools required: slot head screwdriver





Pull strongly to the direction shown by the blue arrow to remove all the drive locking pins, then remove their slots by gripping them as shown by the green arrows and at the same time pushing them downwards.



The plastic and metal pieces of the pin are not hot welded or glued; these can be separated by pushing the metal piece out, to the direction shown by the arrow.





To remove the front panel of the tower, unlock the latches identified by the arrows and pull the panel toward the front of the tower.





Remove the 5.25 and 3.5" bay covers by opening the latches shown by the arrows and taking out the covers.





Remove the button mechanisms and the buttons

Tools required: none.



Remove the decorative metal mesh by releasing it with a slot head screwdriver first, at the securing points shown by the arrows



Tools required: slot head screwdriver



Remove the pushbutton with cables shown by the blue arrows, then unscrew the 2 items identified with the green arrows and remove the slots module with cabling.





To disassemble the slots panel, unscrew the items marked by arrows and cut off the wiring.

Tools required: PH2 screwdriver, diagonal cutting pliers





Note! The PCB you retrieve is <10 cm₂ and has to be processed separately!