



# Dismantling Guide

## Cuda12000® CMTS

Part No. 780-000284-00 Rev. A00

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## Preface

### Who Should Use This Manual

This manual is for technicians who dismantle the BigBand Cuda12000 CMTS.

### Document Conventions

BigBand Networks emphasizes the importance of following all procedures described in this guide, to prevent personal injury. The user should pay careful attention to sections that contain the following conventions:



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**Note:** Information presented in this format is very important in the associated context. Please pay particular attention to the text conveyed as as a Note.

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**Warning:** Information presented in this format identifies a potentially dangerous situation involving electrical circuitry or heavy equipment. Use the advice in this text to avoid bodily injury.

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**Special Handling:** Information presented in this format indicates special care must be applied when disposing or recycling the component.

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# 1 Policy Statement

BigBand Networks (BBN) recognizes the importance of developing video and data platforms that not only enable our customers to accomplish more with their networks, but also protect the environment and ensure that future generations enjoy its bounties. BBN is committed, therefore, to meeting the requirements of the European Union's WEEE (waste electrical and electronic equipment) directive. The directive mandates how the materials used in electrical and electronic equipment must be disposed.

BBN has worked closely with its suppliers to eliminate hazardous materials from its products. There are instances, however, where it has not proven possible to completely eliminate all hazardous materials. Consequently, all applicable products are labeled with a crossed-out "wheelie" symbol, indicating that special care must be applied to their disposal and/or recycling (refer to "Document Conventions" on page v).

Additionally, BBN has instituted a take-back program to assist our customers with proper disposal of applicable products, and is also ready to work with equipment recyclers.

For more information about the WEEE requirements in each European country covered by the WEEE directive, and how to comply with them, refer to the following link: [www.bigbandnet.com/company/weee.php](http://www.bigbandnet.com/company/weee.php).

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## 2 Dismantling Instructions

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This chapter provides detailed instructions for dismantling the BigBand Cuda12000 CMTS (Cuda). The instructions should be followed in the order specified.

### 2.1 General Preparation

You need the following tools to dismantle the Cuda:

- #1 Phillips screwdriver
  - #2 Phillips screwdriver
  - 7/16" socket or wrench
-

## 2.2 Dismantling Components from the Front of the Cuda

1. Remove the modules and panels:
  - a. Loosen the top and bottom captive screws that secure the modules in place.



- b. Move the ejector levels to the outward position.
  - c. Grasp the ejector levels and pull the module out of the slot.
2. Remove the upper and lower fan panels and fan tray slides:
  - a. Loosen the captive screws on each side of the panels that secure the panels to the fan tray.



- b. Pull the panels away from the fan tray.

- c. Hold the fan tray slide by its handle and gently pull it toward you to slide it out of the fan tray.



3. Remove the four printed circuit board screws (PCB) from each fan slide:



4. Remove the power box cover by loosening the four screws that are located inside the chassis.



5. Remove the ON/OFF power switches:
  - a. Loosen the screws that secure the power switches—three per switch.
  - b. Remove the switches by sliding rearward.



- c. Remove the cables attached to rear of switches.



## 2.3 Dismantling Components from the Rear of the Cuda

1. Remove the rear IO module:
  - a. Remove any cables connected to the rear I/O module.
  - b. Slowly loosen both captive thumb screws (one at the top and one at the bottom of the module) until you feel the screws disengage from the chassis.
  - c. Disconnect the module from the backplane—Without using excessive force, carefully pull the rear I/O module toward you until you feel it disconnect from the backplane.
  - d. Gently slide the module toward you along the slot guides until the rear I/O module is removed from the chassis.



2. Remove the Switch card back cover by loosening the four captive thumb screws—two on each side.



3. Remove the Switch card:
  - a. Hold the card by the edges, and gently pull it toward you until you feel the card disengage from the connector on the backplane.
  - b. Put the card in its protective packing material.



4. Remove the alarm panel, by loosening the four screws—one on each corner.

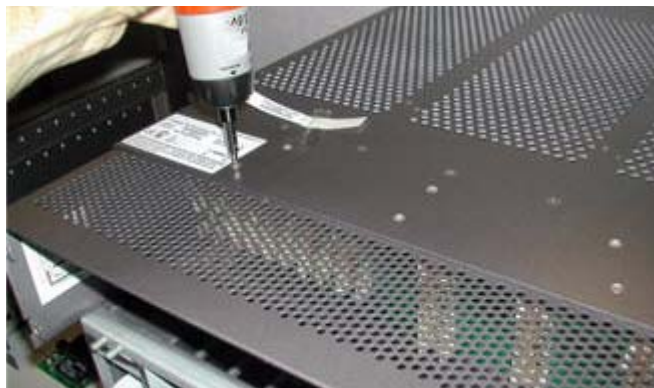




- b. Loosen the two standoff screws on the front of the PCB.



7. Remove the rear chassis frame cover:
  - a. Loosen the three screws on the top of the rear cover.



- b. Loosen the three screws on the right side of the rear cover.



- c. Loosen the 11 screws that secure the bottom bracket.



- d. Pull the rear frame away from the chassis.



8. Disconnect the three N+1 signal and power cables.



9. Remove power connector box:
  - a. Remove the connector cover, by loosening the two screws—one at top right corner and the other at bottom right corner.



- b. Loosen the two screws on the rear and side of the connector box.



- c. Pull the box away from the chassis and disconnect the power cables.



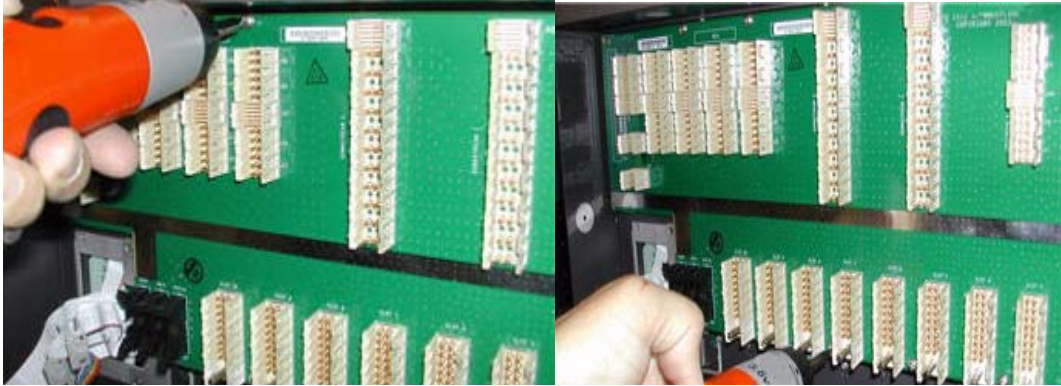
10. Remove the power connector printed circuit board (PCB), by loosening the screws at each corner.



11. Remove the power feed and return studs from the power connector.



12. Remove the N+1 backplane, by loosening the 10 screws that secure the backplane.



13. Remove the backplane cable retainer:
  - a. Loosen the two screws on the cable retainer.
  - b. Disconnect the cables.



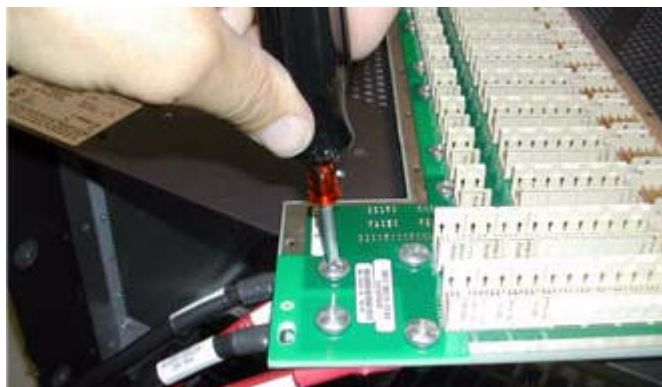
14. Remove the chassis backplane, by loosening the three screws on the top, the three screws on each side, and the eight screws on the rear bottom edge of the backplane.



15. Disconnect the fan power and signal cables.



16. Remove the power cables from the backplane, by loosening the four screws.



17. Remove the lower fan backplane, by loosening the three remaining screws.



18. Remove the upper fan backplane, by loosening the 14 screws.



19. Remove the fan backplane from the panel, by loosening the six screws.



The Cuda dismantling is complete.