

# ASTi Telestra Cold Start Procedure

## Overview

The cold start procedure described in this document allows users to build Telestra systems from scratch. There are two main reasons for using the cold start procedure:

1. Rebuilding a damaged hard disk
2. Creating spare hard disks

## Requirements

For 1U systems *without* a built-in CD-ROM drive, use the procedure outlined on page 2. You will need the following items:

- ASTi Kickstart Diskette
- ASTi Linux CD
- ASTi Telestra CD
- USB CD-ROM kit:
  - USB CD-ROM drive & power cable
  - USB connection cable

For 1U systems *with* a built-in CD-ROM drive, use the procedure outlined on pages 3-4. You will need the following items:

- ASTi Software CD

For 2U or 4U systems, use the procedure outlined on pages 5-6. You will need the following items:

- ASTi Software CD

## Cold Start Procedure: 1U Systems using USB CD-ROM Drive

**WARNING: This will COMPLETELY ERASE the contents of your hard drive.**

Before beginning, make sure you have a hard drive properly inserted into the system, along with a connected monitor and keyboard.

### Installing Linux

1. Connect the USB CD-ROM and power cable to power source. Then, connect the USB CD-ROM drive to the Telestra system using the USB connector cable. The USB port is on the front of the Telestra chassis.
2. Insert the floppy disk labeled “ASTi Kickstart Diskette”.
3. Turn on the Telestra system via the power switch on the front of the chassis. The system will boot from the floppy.
4. Insert the CD labeled “ASTi Linux CD”.
5. Linux will begin to install, and you will see a dialog box showing the progress of the installation.

If you see a message indicating a Bad Partition Table, select the “Initialize” option to continue with the Linux installation.

6. A message will then be displayed indicating the install has finished.

If you want to install ASTi software, skip to step 2 of the next section: “Installing ASTi Software”.

**- OR -**

7. Remove the “ASTi Kickstart Diskette”.
8. Press ENTER to reboot the system.
9. Remove the “ASTi Linux CD” after it ejects.

### Installing ASTi Software

1. Connect the USB CD-ROM drive as in step 1 of “Installing Linux” above.
2. Power on the system (or, if you have just finished installing Linux, remove the “ASTi Kickstart Diskette” and press ENTER to reboot, then remove the “ASTi Linux CD” after it ejects.).
3. Insert the CD labeled “ASTi Software CD”.
4. At the “LILO:” prompt, type “asti” and press ENTER. If you miss the “LILO:” prompt, you will need to reboot by pressing the CTRL + ALT + DEL keys.
5. ASTi software installation will proceed. After a while, a message will display indicating the installation has completed.
6. Remove the “ASTi Software CD”, disconnect the CD-ROM drive, and press ENTER to reboot the system.

## Cold Start Procedure: 1U Systems with Built-In CD-ROM Drive

**WARNING:** *This will COMPLETELY ERASE the contents of your hard drive.*

Before beginning, make sure you have a hard drive properly inserted into the system, along with a connected monitor and keyboard.

### Configuring the Award BIOS for MX3S and MX3S-T AOpen motherboards

The following instructions apply to the 1U Telestra chassis with built-in CD-ROM drive and *Award BIOS for MX3S and MX3S-T AOpen* motherboards. See the next section for instructions on configuring BIOS version CA81020A.86A.0006.P03.

1. Immediately after system power-on or reboot, press the Delete or Del key to enter BIOS setup.
2. From the main screen, verify title reads, “CMOS Setup Utility - Copyright (C) 1984-2001 Award Software”.
3. Press the right-arrow key to highlight “Load Setup Defaults” (first option, right-hand column), and press the ENTER key.
4. Confirm the action by typing “Y”, followed by the ENTER key.
5. Use the arrow keys to highlight “Standard CMOS Features” (first option, left-hand column), and press the ENTER key to access those settings.
6. The last option on the Standard CMOS Features screen is “Halt On”. Arrow-down to this option and press the ENTER key. When presented with the setting options, arrow-down to select “No Errors” and press the ENTER key.
7. Press the ESC key to return to the main menu.
8. Use the arrow keys to highlight “Advanced BIOS Features” (second option, left-hand column), and press the ENTER key to access those settings.
9. Make sure the “First Boot Device” is set to “CDROM”, which is the default.
10. Press the ESC key to return to the main menu. Use the down-arrow key to select “Integrated Peripherals” (fourth option, left-hand column).
11. Change the “IDE Primary Master UDMA”, “IDE Primary Slave UDMA”, “IDE Secondary Master UDMA”, and “IDE Secondary Slave UDMA” settings to “Disable”. For each, highlight the setting, press the ENTER key, arrow-down to “Disable” and press ENTER.
12. Press the F10 key to save the settings and exit the utility.
13. Confirm the action by typing “Y”, followed by the ENTER key.
14. The system will then reboot using the new BIOS settings. Proceed with “Installing Linux & Telestra Software” on the next page.

## Configuring BIOS version CA81020A.86A.xxxx.Pxx

The following instructions apply to the 1U Telestra chassis with built-in CD-ROM drive and BIOS version *CA81020A.86A.xxxx.Pxx*.

1. Immediately after system power-on or reboot, press the F2 key to enter BIOS setup.
2. From the main screen, verify BIOS version matches that listed above.
3. Press the F9 key to load BIOS defaults, followed by the ENTER key to confirm the action.
4. Use the right-arrow key to move the cursor over the “Boot” menu at the top of the screen; in the main window, boot settings will be displayed.
5. “Quiet Boot” will already be highlighted. Press ENTER to access this setting, use the up-arrow key to highlight “Disabled”, then press ENTER to change the setting.
6. Use the down-arrow key to highlight “2nd Boot Device”. Press ENTER to access this setting, use the down-arrow key to highlight “ATAPI CDROM”, and press ENTER to change the setting.
7. Use the down-arrow key to highlight “3rd Boot Device”. Press ENTER to access this setting, use the up-arrow key to highlight “IDE-HDD”, and press ENTER to change the setting.
8. Press the F10 key to save the settings and exit the utility; press ENTER to confirm the action. The system will then reboot using the new BIOS settings. Proceed with software installation.

## Installing Linux & Telestra Software

1. Turn on the Telestra system via the power switch on the front of the chassis.  
The system may or may not fully boot, and you may receive an error message.
2. Insert the CD labeled “ASTi Software CD” into the CD-ROM drive.
3. Reboot the system using the “Reset” button on the front of the chassis.
4. The system will boot from the CD, and the Linux Base System will begin to install. You will see a dialog box showing the progress of this installation.
5. After Base System installation, the CD-ROM drive will open, and the screen will display a “Reboot the system?” confirmation.
  - a. Remove the CD. ***Failure to do this will result in Base System reinstallation.***
  - b. Press the ENTER key to confirm system reboot.
6. After reboot, the screen will display “ASTi Software Installation”. Open the CD-ROM drive, insert the same “ASTi Software CD”, and press the ENTER key. The drive will close, and installation will proceed.
7. Upon completion, the CD-ROM drive will open, and the screen will display a “Finish ASTi Installation” confirmation.
  - a. Remove the CD. ***Failure to do this will result in Base System reinstallation.***
  - b. Press the ENTER key to confirm, and the system will reboot.

## Cold Start Procedure: 2U & 4U Telestra Systems

**WARNING:** *This will COMPLETELY ERASE the contents of your hard drive.*

Before beginning, make sure you have a hard drive properly inserted into the system, along with a connected monitor and keyboard.

### Configuring BIOS version RG84510A.86A.xxxx.Pxx

The following instructions apply to the 2U & 4U Telestra chassis and BIOS version **RG84510A.86A.xxxx.Pxx**.

1. Immediately after system power-on or reboot, press the F2 key to enter BIOS setup.
2. From the main screen, verify BIOS version matches that listed above.
3. Use the right arrow to select the “Exit” menu at the top of the screen. Arrow down to “Load Optimal Defaults” and press the ENTER key. Press the ENTER key again to confirm the action.
4. Arrow left to highlight the “Main” menu at the top of the screen. Arrow down to “System Time”. Use the + and – keys to set the time; use the TAB key to switch between hour, minutes and seconds.
5. Arrow down to “System Date”. Use the + and – keys to set the date; use the TAB key to switch between month, day, and year.
6. Arrow right to highlight the “Advanced” menu at the top of the screen. Arrow down to “Video Configuration” and press ENTER. Arrow down to “Frame Buffer Size” and press ENTER. In the submenu, arrow down to “8MB” and press ENTER to select.
7. Press the ESC key to return to the “Advanced” menu. Arrow down to “USB Configuration” and press ENTER. “High-Speed USB” should already be highlighted; press ENTER. In the submenu, arrow up to “Disabled” and press ENTER to select.
8. Arrow down to “Legacy USB Support” and press ENTER. In the submenu, arrow up to “Disabled” and press ENTER to select.
9. Press the ESC key to return to the “Advanced” menu.
10. Arrow right to highlight the “Boot” menu at the top of the screen. “Silent Boot” should already be highlighted; press ENTER. In the submenu, arrow up to “Disabled” and press ENTER to select.
11. Arrow down to “Scan User Flash Area” and press ENTER. In the submenu, arrow up to “Disabled” and press ENTER to select.
12. Arrow down to “Boot Device Priority” and press ENTER to go into the submenu. “1st Boot Device” should already be highlighted; press ENTER. In the submenu, arrow down to select “ATAPI CDROM” or “SM-xxxxxxx” and press ENTER.
13. Arrow down to “2nd Boot Device” and press ENTER. In the submenu, arrow down to select “Hard Drive” or “PM-xxxxxxx” and press ENTER.

14. Arrow down to “3rd Boot Device” and press ENTER. In the submenu, arrow down to “Disabled” and press ENTER.
15. Press the ESC to return to the “Boot” menu.
16. Arrow right to highlight the “Exit” menu at the top of the screen. “Exit Saving Changes” should already be highlighted; press ENTER. Press ENTER again to confirm the action. The system will reboot.

## Installing Linux & Telestra Software

1. Turn on the Telestra system via the power switch on the front of the chassis.  
The system may or may not fully boot, and you may receive an error message.
2. Insert the CD labeled “ASTi Software CD” into the CD-ROM drive.
3. Reboot the system using the “Reset” button on the front of the chassis.
4. The system will boot from the CD, and the Linux Base System will begin to install. You will see a dialog box showing the progress of this installation.
5. After Base System installation, the CD-ROM drive will open, and the screen will display a “Reboot the system?” confirmation.
  - a. Remove the CD. ***Failure to do this will result in Base System reinstallation.***
  - b. Press the ENTER key to confirm system reboot.
6. After reboot, the screen will display “ASTi Software Installation”. Open the CD-ROM drive, insert the same “ASTi Software CD”, and press the ENTER key. The drive will close, and installation will proceed.
7. Upon completion, the CD-ROM drive will open, and the screen will display a “Finish ASTi Installation” confirmation.
  - a. Remove the CD. ***Failure to do this will result in Base System reinstallation.***
  - b. Press the ENTER key to confirm, and the system will reboot.