

Mediant 1000B OSN3 Kontron BIOS Upgrade Ver 23

Document #: LTRT- 25500



Table of Contents

- 1 Introduction7**
- 2 Verifying BIOS Version Number.....9**
- 3 Creating Boot CD 11**
 - 3.1 Downloading an ISO Boot Image File 11
 - 3.2 Burning the ISO Boot Image File to a CD 11
- 4 Upgrading BIOS Firmware..... 13**

Reader's Notes

Notice

This document describes the BIOS upgrade procedure for AudioCodes Mediant 1000B OSN3 gateway.

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Date Published: Sep-19-2010

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Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used. Only industry-standard terms are used throughout this manual. Hexadecimal notation is indicated by 0x preceding the number.

Reader's Notes

1 Introduction

This document is intended for AudioCodes Mediant 1000B OSN3 customers who have a previous BIOS version currently installed. The document describes, step by step, how to update the BIOS to the new version (version 23).

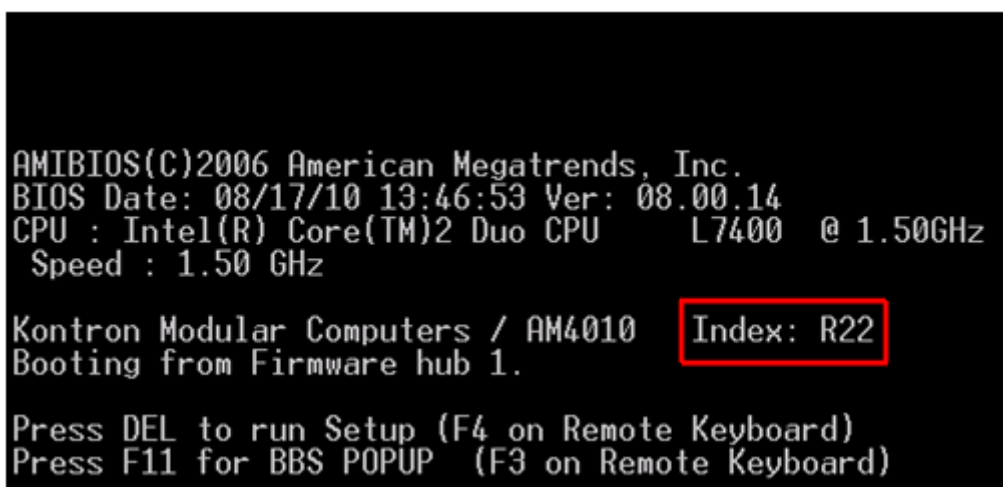
Reader's Notes

2 Verifying BIOS Version Number

Before performing the upgrade procedure, it is recommended to verify that the current BIOS is an older version than Version 23, as described in this section.

➤ **To verify the BIOS version number:**

1. Connect your PC using a serial cable to the Mediant 1000B OSN3.
2. Connect the USB CD-ROM device using a USB cable to the Mediant 1000B OSN3.
3. Open the Terminal application (e.g. HyperTerminal) on your PC, with the following settings:
 - Connect Port = COM1
 - Baudrate = 115200 (bits per second)
 - Data Bits = 8
 - Parity = None
 - Stop Bits = 1
 - Flow Control = None
4. Power up the Mediant 1000B OSN3; on the Terminal application, the BIOS phase commences and the CLI prompt is displayed.
5. When the system starts up, verify that the BIOS Index on the boot is "22" or older as displayed in the following screen:



```
AMIBIOS(C)2006 American Megatrends, Inc.  
BIOS Date: 08/17/10 13:46:53 Ver: 08.00.14  
CPU : Intel(R) Core(TM)2 Duo CPU L7400 @ 1.50GHz  
Speed : 1.50 GHz  
  
Kontron Modular Computers / AM4010 Index: R22  
Booting from Firmware hub 1.  
  
Press DEL to run Setup (F4 on Remote Keyboard)  
Press F11 for BBS POPUP (F3 on Remote Keyboard)
```

Reader's Notes

3 Creating Boot CD

Before you can upgrade the BIOS Firmware of the Mediant 1000B OSN3, you need to perform the following:

- Download an ISO Image
- Burn the ISO Image file to a CD



Note: If you are already in possession of the latest Boot CD version, proceed to section 'Upgrading BIOS Firmware' on page 13.

3.1 Downloading an ISO Boot Image File

The procedure below describes how to download an ISO image from the AudioCodes Web site.

- **To download an ISO image from AudioCodes Web site, take the following steps:**
 1. Login to <ftp://ftp.audiocodes.com>, with "OSN3BIOS" Username and Password.
 2. Select the *SK-LIN-APP-FWUPD-AM4010-AUC-R11.iso* Boot image file.
 3. Download the ISO image file to a folder on your PC.

3.2 Burning the ISO Boot Image File to a CD

The procedure below describes how to burn the downloaded ISO image file to a CD.

- **To burn the ISO Boot image file to a CD, take these 3 steps:**
 1. Open a CD burning utility.
 2. Use the "Burn Image" option to burn the *SK-LIN-APP-FWUPD-AM4010-AUC-R11.iso* file to an empty CD media.
 3. Start the CD burning process.

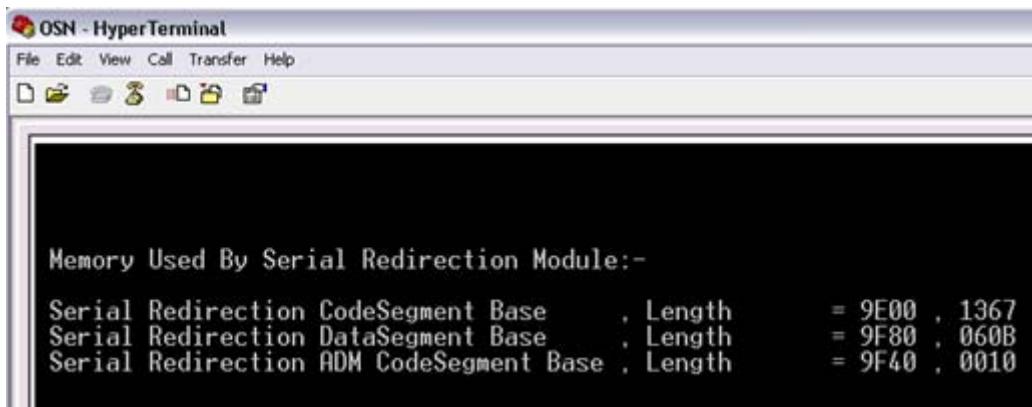
Reader's Notes

4 Upgrading BIOS Firmware

Once you have created the Boot CD and have verified that you currently have a previous version installed, you can commence upgrading the Mediant 1000B OSN3 BIOS firmware to Version 23.

➤ **To upgrade the BIOS firmware:**

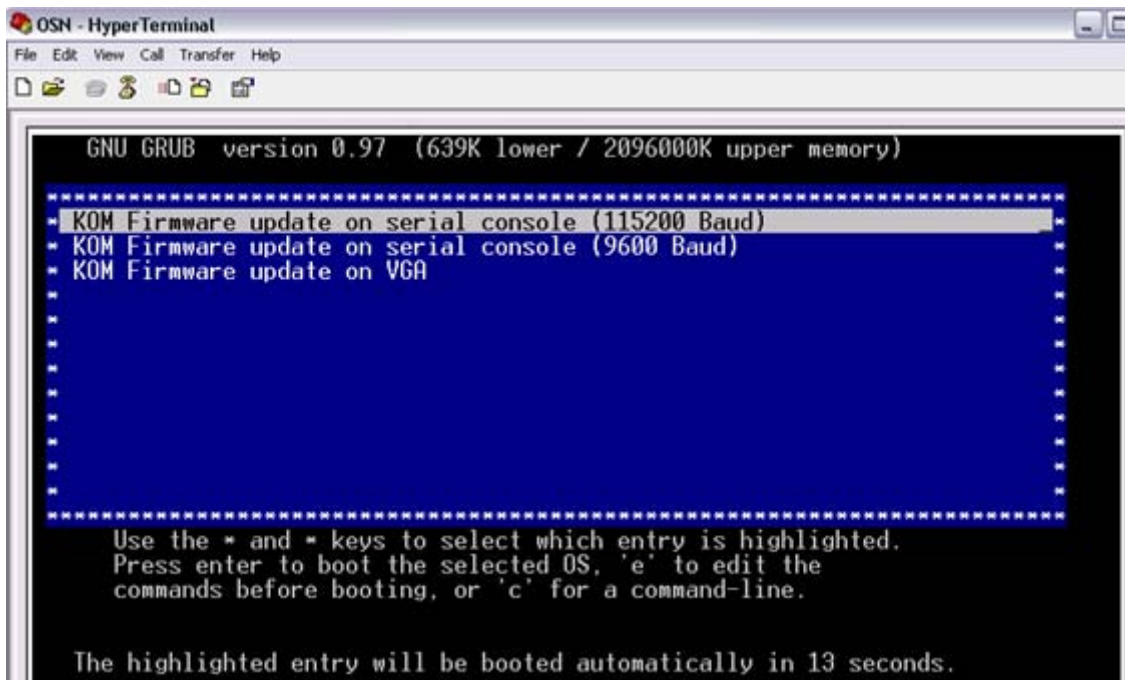
1. Connect your PC using a serial cable, to the Mediant 1000B OSN3.
2. Connect the USB CD-ROM device using a USB cable to the Mediant 1000B OSN3.
3. Open the Terminal application (e.g. HyperTerminal) on your PC, with the following settings:
 - Connect Port = COM1
 - Baudrate = 115200 (bits per second)
 - Data Bits = 8
 - Parity = None
 - Stop Bits = 1
 - Flow Control = None
4. Insert the Boot CD (created in Section 3.2, "Burning the ISO Boot Image File to a CD") into the USB CD-ROM.
5. Power up the Mediant 1000; on the Terminal application, the BIOS phase commences and the CLI prompt is displayed.
6. The system starts up and at the prompt, the following is displayed:



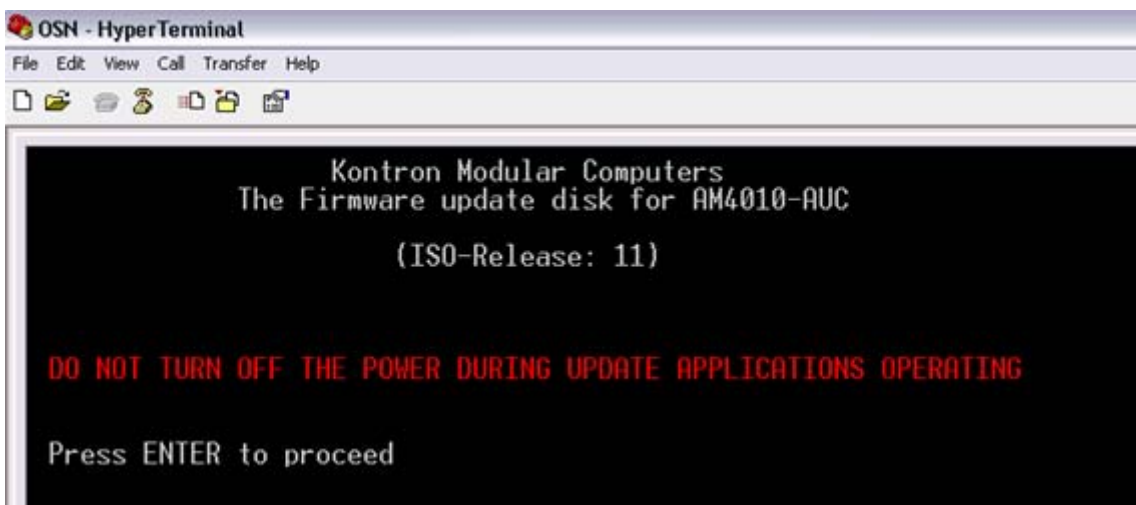
The screenshot shows a HyperTerminal window titled "OSN - HyperTerminal". The window contains the following text:

```
Memory Used By Serial Redirection Module:-  
Serial Redirection CodeSegment Base      , Length      = 9E00 , 1367  
Serial Redirection DataSegment Base      , Length      = 9F80 , 060B  
Serial Redirection ADM CodeSegment Base  , Length      = 9F40 , 0010
```

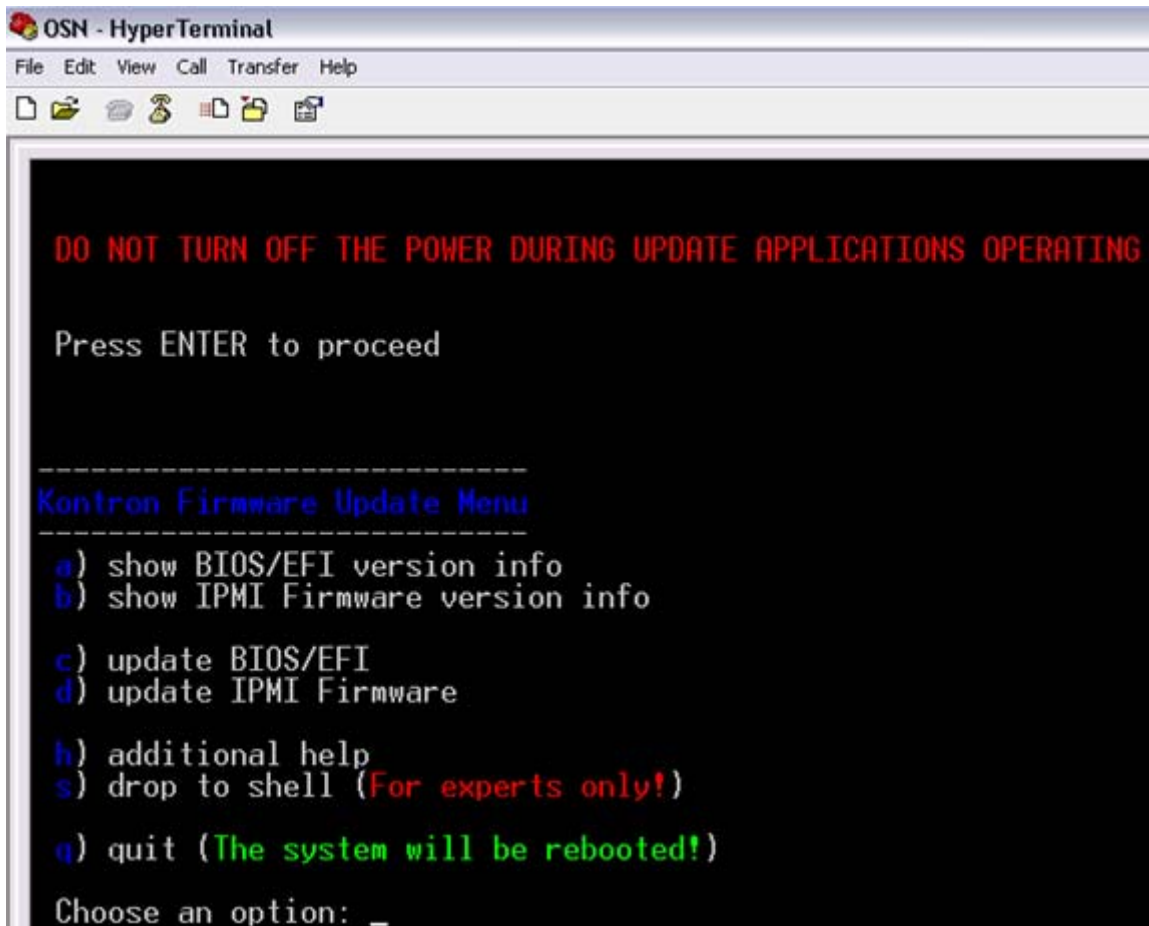
After a few moments, the following screen is displayed:



7. Wait until the system is booted automatically or press the <Enter> key (ensure that the cursor is on the “KOM Firmware update on serial console (115200 Baud)” entry).
8. The following warning message is displayed; press the <Enter> key to continue.



9. In the Menu, enter the “a” option and press the <Enter> key to continue.



```
OSN - HyperTerminal
File Edit View Call Transfer Help
-----
DO NOT TURN OFF THE POWER DURING UPDATE APPLICATIONS OPERATING
Press ENTER to proceed

-----
Kontron Firmware Update Menu
-----
a) show BIOS/EFI version info
b) show IPMI Firmware version info

c) update BIOS/EFI
d) update IPMI Firmware

h) additional help
s) drop to shell (For experts only!)

q) quit (The system will be rebooted!)
Choose an option: _
```

The BIOS version is displayed:

	file	onboard
BIOS version	23	22
Build Date	08/17/2010	10/23/09

10. If the version is 22 or older, you should upgrade the BIOS. After the upgrade is complete, you return to the menu.
11. In the menu, enter the "c" option and press the <Enter> key to continue.

```

OSN - HyperTerminal
File Edit View Call Transfer Help

direct mmap access
Flash part is SST49LF008A (1024 KB).

SLP 1.0 string "KontronGroup" detected at 0xfe840
Comparison between BIOS Image and Board information
-----
BIOS Image | /mnt/FIRMWARE/data/4010R23.KFL |
-----
Material-No | 1036-5371 |
Article | SK-BIOS-AM4010 |
kflash version | r21 | Board Data
Bootblock size | 0 |
Boardname | AM4010 |
BIOS version | 23 |
Build Date | 08/17/2010 |
CRC (calc/trailer) | 1489875494 / 1489875494 |
BoardID | A2 |
-----
User Hints:
Please load BIOS Defaults after this setup
Note: You have 2 different flash chips onboard which are switchable via jumper
Refer to User Guide for details

Write the image [n] _
    
```

- At the 'Write the image [n]' prompt, enter "y" and press the <Enter> key to continue.

```
Write the image [n] y
```

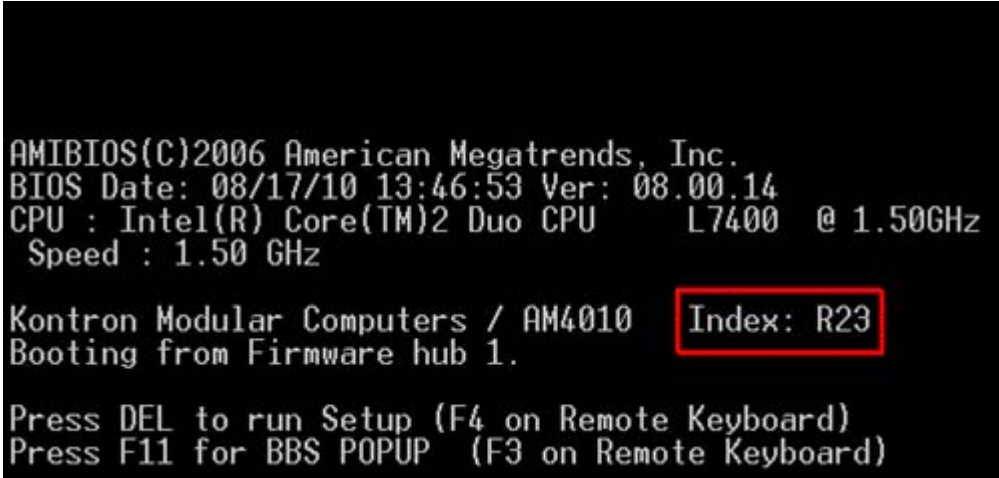
```

0000 at address: 0x00000000SKIPPED
0001 at address: 0x00010000SKIPPED
0002 at address: 0x00020000SKIPPED
0003 at address: 0x00030000SKIPPED
0004 at address: 0x00040000SKIPPED
0005 at address: 0x00050000SKIPPED
0006 at address: 0x00060000DONE BLOCK 0x60000
0007 at address: 0x00070000DONE BLOCK 0x70000
0008 at address: 0x00080000DONE BLOCK 0x80000
0009 at address: 0x00090000DONE BLOCK 0x90000
0010 at address: 0x000a0000DONE BLOCK 0xa0000
0011 at address: 0x000b0000DONE BLOCK 0xb0000
0012 at address: 0x000c0000DONE BLOCK 0xc0000
0013 at address: 0x000d0000DONE BLOCK 0xd0000
0014 at address: 0x000e0000SKIPPED
0015 at address: 0x000f0000
    
```

At the end of the write operation, the menu is displayed.

- Enter the "q" option and press the <Enter> key to restart the Mediant 1000 OSN3.
- After a few seconds, a message is displayed requesting you to remove the Media CD from the CD-ROM. Ignore this message, ensuring that the Media CD remains in the CD-ROM drive prior to proceeding to the next step.
- Repeat steps 6-13 to update the backup BIOS.
- Remove the Media CD from the CD-ROM.

17. Enter the “q” option and press the <Enter> key to restart the Mediant 1000 OSN3.
18. Verify that the BIOS Index on the boot is “23” as displayed in the following screen:



```
AMIBIOS(C)2006 American Megatrends, Inc.  
BIOS Date: 08/17/10 13:46:53 Ver: 08.00.14  
CPU : Intel(R) Core(TM)2 Duo CPU    L7400  @ 1.50GHz  
Speed : 1.50 GHz  
  
Kontron Modular Computers / AM4010  Index: R23  
Booting from Firmware hub 1.  
  
Press DEL to run Setup (F4 on Remote Keyboard)  
Press F11 for BBS POPUP (F3 on Remote Keyboard)
```

Mediant 1000B OSN Server

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