

CEDAR Audio Ltd

CEDAR Cambridge Engineering Note

Date: 24th August 2010

RE: CEDAR Cambridge Series III

A problem has been identified with certain Cambridge Series III systems that might cause occasional clicks to be introduced in real-time audio streams. Affected systems use the Supermicro X7DAL-E+ motherboard and Intel Xeon E5420 CPUs, and were manufactured between February 2009 and March 2010. Other Cambridge systems are not affected.

Owners of affected systems are advised to update the system BIOS as detailed on the following page. Do not attempt to apply this update to any other CEDAR Cambridge systems.

If you need assistance to determine whether your system is affected, or for any further information, please contact support@cedaraudio.com.

Determine the BIOS version

- Shutdown the Cambridge Series III computer.
- Reboot, and press the DEL key to enter the BIOS setup.
- If the BIOS version is 2.1a dated 01/08/09 then skip to **Setup the BIOS**.
- If the BIOS version is NOT version 2.1a then contact CEDAR (support@cedaraudio.com) to obtain a BIOS update USB stick*.
- Press ESC, cursor down to **Exit Discarding Changes** and press ENTER.

You can continue to use your Cambridge system until you receive the BIOS update USB stick. When you receive it, proceed with **Update the BIOS**.

Update the BIOS

If not already in the BIOS setup, then reboot and press the DEL key to enter the BIOS setup.

- Press F9 (Setup defaults) and then ENTER to confirm.
- Insert the BIOS update USB stick obtained from CEDAR directly into a spare USB socket on the computer. Do not use a USB hub or similar to connect the USB stick, and ensure that no other USB storage devices are connected.
- Press F10 (Save and Exit) and then ENTER to confirm. The computer will reboot and update the BIOS. When the BIOS update is complete, the computer will reboot again, halting with the message:

```
0251: System CMOS checksum bad - Default configuration used
Press <F1> to resume, <DEL> to Setup
```

- Remove the BIOS update USB stick.
- Press DEL to enter the BIOS setup.

Setup the BIOS

- Press F9 (Setup Defaults) and press ENTER to confirm.
- On the **Main** BIOS setup page, cursor down to select **Legacy Diskette A:**. Press ENTER, select **Disabled** and press ENTER to confirm.
- Also on the **Main** BIOS setup page, cursor down to select **SATA Controller Mode Option**. Press ENTER, select **Enhanced** and press ENTER to confirm.
- Two new options now appear immediately below. Cursor down to select **SATA AHCI Enable**. Press ENTER, select **Enabled** and press ENTER to confirm.
- Cursor right to select the **Advanced** BIOS page, and then down to select **Hardware Monitor**. Press ENTER, and then cursor down to **Fan Speed Control Modes**. Press ENTER again, then select **3)3-pin(workstation)** and press ENTER to confirm.
- Press F10 (Save and Exit) and then ENTER to exit the BIOS setup pages, saving the changes.

The update procedure is now complete and the computer will reboot normally.

* If you are an expert PC technician you can download a BIOS update for the X7DAL-E+ motherboard from www.supermicro.com instead of obtaining it from CEDAR. However, you will have to adapt the standard update procedure because the Cambridge Series III hardware does not have a floppy disc drive. Once you have updated the BIOS, continue from **Setup the BIOS**.