

Errata/suggestions for TI/DSPC setup guide

Thursday, April 17, 2025 10:38 AM

AM62D Audio SDK 11.02

AudioSdk_Users_Guide.html

1)

Audio Signal-Chain Processing

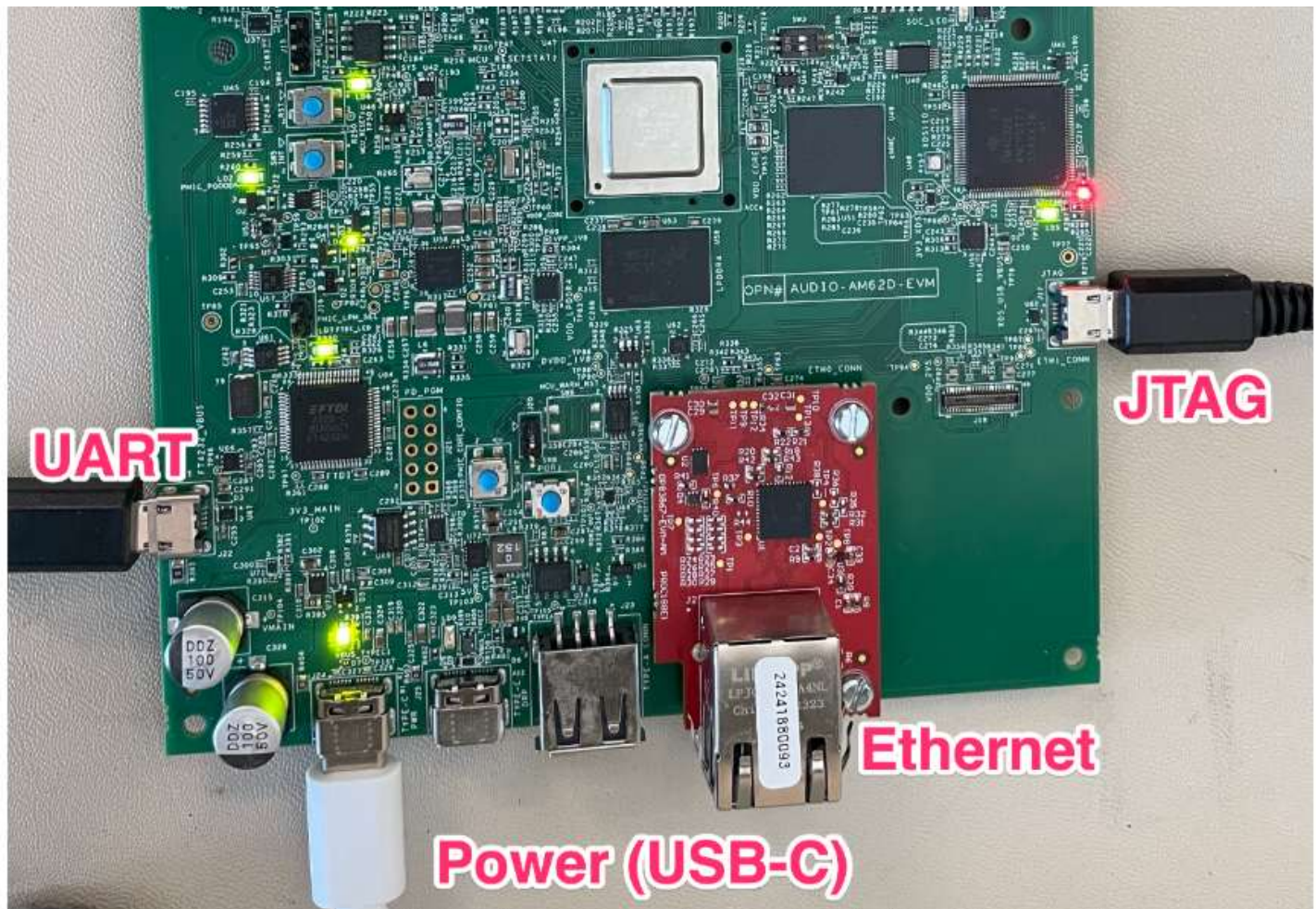
- Audio signal-chain processing on C75x/A53 core
- Multi-rate, multi-thread audio processing
- Low-latency audio path for small audio sample rates
- Normal audio processing on higher sample rates

Should say:

- Low-latency audio path for small block size
- Normal audio processing for higher block sizes

2)

On this photo, please add a note indicating that if all 5 green LEDs on the left side are not illuminated, your power supply probably does not have enough current.



4)

Installing Audio SDK

Tool-Chains

Following tools will be required to build ASK.

Tool-chains	Windows host machine	Linux host machine
TI Code Composer Studio (12.7.0)	Windows Installer	Linux Installer
TI SysConfig Tool (1.20.999)	Windows Installer - Download from OneRelease link	Linux Installer - Download from OneRelease link
TI ARM LLVM Compiler (3.2.2 LTS)	Windows Installer	Linux Installer
TI C7000 Compiler (4.1.0 LTS)	Windows Installer	Linux Installer
ARM GNU Compiler (9.2-2019.12)	Windows Host Machine	Linux host Machine

In this section, some guidance as to where the packages should be installed would be helpful. As far as I can tell, the TI packages install in the same folder that the downloaded EXE is in when you run it. So it would be helpful to move the EXE files to C:\TI first, since that's where the imports.mak expects to find them.

Identify the path to gmake after installation is done.

5)

- OpenSSL for making image
 - Download and install [OpenSSL](#)
 - Update path for OpenSSL bin folder

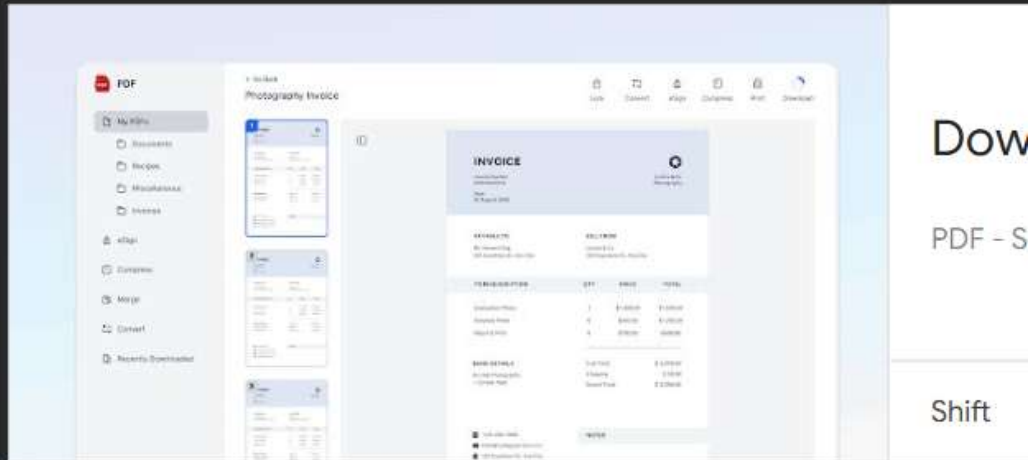
This link takes you to the OpenSSL home page, where you can get source code. However, there are no installer binaries there as far as I could tell. I used this online reference to install OpenSSL in Windows 11.

[How to Install OpenSSL on Windows 10 & 11: A Complete Guide | Windows Forum](#)

Method 1: Installing OpenSSL Using Winget

For most Windows users, simplicity is king. Windows 11 and 10 include a handy package manager called Winget that

Step-by-Step Installation via Command Prompt or PowerShell



- **Open the Terminal with Administrative Privileges**

Right-click the Start button and select "Terminal (Admin)" from the Power User menu. This ensures you have the

- **Verify Winget Availability**

To check if Winget is already installed on your machine, execute:

```
Code:
shell
winget -v
```

If you see version details or a help message, you're good to go!

- **Search for OpenSSL Package**

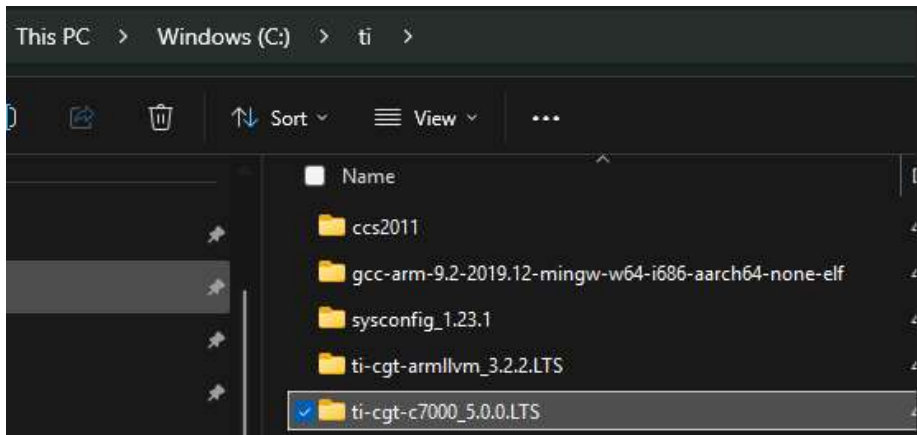
Before installation, confirm the right package name by searching for OpenSSL:

```
C:\Windows\System32>winget install ShiningLight.OpenSSL.Light
Found OpenSSL Light 3.4.0 [ShiningLight.OpenSSL.Light] Version 3.5.0
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party
This package requires the following dependencies:
- Packages
  Microsoft.VCRedist.2015+.x64
Downloading https://slproweb.com/download/Win64OpenSSL_Light-3_5_0.msi
5.73 MB / 5.73 MB
Successfully verified installer hash
Starting package install...
```

After you go through this, the OpenSSL.exe is located at:

C:\Program Files\OpenSSL-Win64\bin

6) I think it would also be helpful to show all of the TI packages installed in C:\TI:

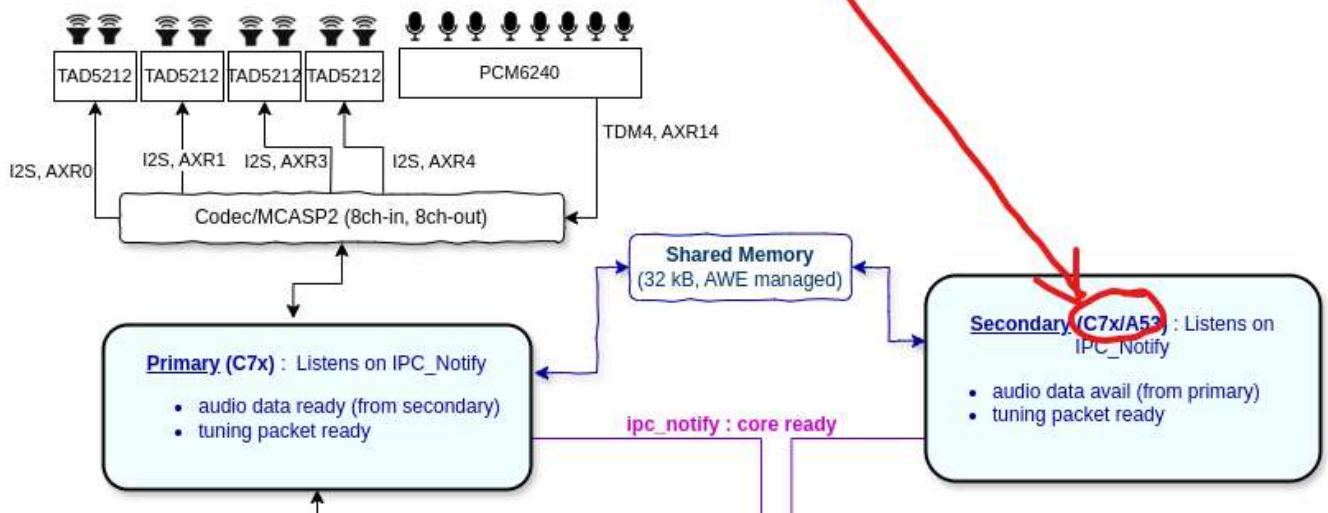


7)

I believe that "C7x/A53" in the right hand box really wants to say "A53/Core0".

Config3: Multi-Instance C7x, A53/core0 & MCU/R5F

In this configuration, C7x will configure Codec, MCASP, DMA. It will be processing the audio signal chains as primary. A53/Core0 will be secondary core for audio processing. The mcu/r5f will be used as tuning gateway.



8) This appears in 3 places, one for each config:

Steps to run

- Open UART console and check for ip-address.
- On Windows computer, launch **AWE Server** and connect using TCP/IP with IP address given by DHCP server
- Now launch **Awe Designer** and open the layout file and press 'Launch icon'.

Generally speaking, launching Audio Weaver starts AWE Server automatically. So it's not necessary to launch AWE Server as a separate step. I recommend, for the last 2 points:

Launch AWE Designer. This will start AWE Server automatically.

In AWE Server, go to "Target->Change Connection" and enter the IP address found in step 1.

Change Connection

Connection: TCP/IP

IP Address: 10.0.0.76

Port: 15002

Timeout (ms): 1251

And then confirm the display showing that you have connected to the TI board (which I don't have handy at the moment).

AM275 Audio SDK 11.02

Clarify what can be found on all 6 COM ports that appear when you connect both USB cables.

UART-Terminal Setup

Use follow configuration parameters for setting terminal.

- Connect terminal using UART port (**ACM[X]** of XDS port).
- Speed : **115200**
- Data : **8-bit**
- Parity : **None**
- Stop Bits : **1 bit**
- Flow Control : **None**

State that DHCP mode is enabled by default. This will require either:

- PC and AM275 EVM are both connected via Ethernet to a switch or router which is running a DHCP server
- Connect the EVM to your PC using the Ethernet port and run a local DHCP Server such as dhcpsrv.exe (open source tool)

1. When you mix and match SD card files from different versions you get an error (on COM16 for me) that says your files come from different SDK versions, but the versions are in hex and don't exactly correspond with 11.01 or 11.00. It would be nice if it stated directly the version incompatibility.
2. If the bootloader COM port log could state if the device is in TCP/IP mode or UART mode or both that would save a lot of trial and error.