

Overview

Version 1.4.0

Display Audio

Solution Team



Release information

The following changes have been made to this document.

Change History

Date	Change
10 Jul 2019	Fifth release for v1.4.0
29 May 2019	Fourth release for v1.3.0
19 Feb 2019	Third release for v1.2.0
14 Nov 2018	Second release for v1.1.0
14 Dec 2017	First release for v1.0.0

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Chap 1. Introduction

1.1 Display Audio SDK for Linux

This document provides an overview of the Display Audio SDK. Display Audio SDK allows fast and reliable production of automotive Display Audio on the NEXELL chip.

Display Audio SDK can be checked in the following environment.

- Board : D-Audio Reference Board
- CPU : NXP4330Q (NXP4330Q-A) / NXP3220

1.2 Feature

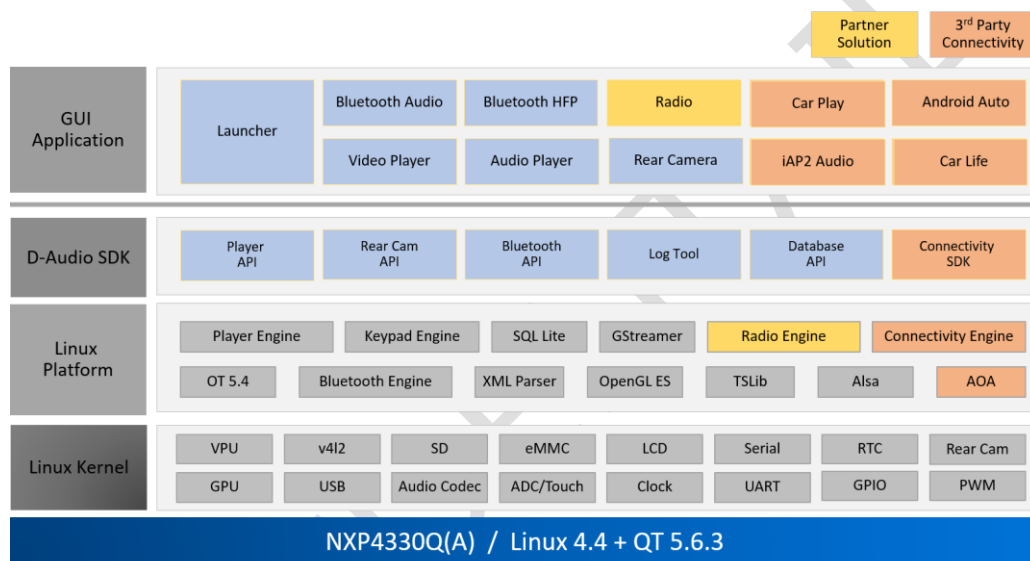
The Display Audio SDK provides the following features:

- Audio/Video Player
- Quick rear camera
- Bluetooth (NXBT100 / AW-256SM)
- Media scanner
- Data base access

Chap 2. SDK Architecture

2.1 Software Block Diagram

The following block diagram is the software architecture for the Display-Audio SDK.



2.2 Software Packages

The Display-Audio software consist of 3 parts application and service and libraries. All application example and some part of services are provided source code level. And some libraries are provided by source code level.

2.2.1 Applications

The following applications are example applications using Display-Audio SDK.

- NxAudioPlayer
- NxVideoPlayer
- NxBTAudio
- NxBTPhone
- NxBTSettings
- NxQuickRearCam
- NxLauncher

2.2.2 Services

The following services are used for Display-Audio example.

- “bsa_server”

Bluetooth service manager for cypress IP.

The profile version supported by the BSA server (BT stack) is as follows.

Profile	Version
HFP	1.6
A2DP	1.3
AVRCP	1.6
PBAP	1.2
MAP	1.2
SPP	1.0

2.2.3 Libraries

- Media player library
Audio/Video player’s library
Subtitle parser library for video player (example)
- Bluetooth service library
Bluetooth low level control API.
- Quick rear camera library(provided by source code level)
- Log management library.

2.3 Documents

2.3.1 Application Guides

- Audio player UI guide
- Video player UI guide
- BT applications UI guide
- Quick rear cam UI guide

2.3.2 Library Guides

- Media player user’s guide.
(Audio/Video player)
- BT API document and user’s guide.
- Etc tool’s guide.

2.3.3 Other Guides

- BSP and SDK build guide.
- BSP update guide.
- Boot animation and boot logo change guide.
- Bluetooth module porting example.

- Subtitle parser user's guide.
- Quick rear camera application guide.

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