

# 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

## Proprietary Notice

Information in this document is provided solely to enable system and software implementers to use Nexell products. There are no express or implied copyright licenses granted hereunder to design or fabricate any integrated circuits or integrated circuits based on the information in this document.

Nexell reserves the right to make changes without further notice to any products herein.

Nexell makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Nexell assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters which may be provided in Nexell data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Nexell does not convey any license under its patent rights nor the rights of others. Nexell products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Nexell product could create a situation where personal injury or death may occur. Should Buyer purchase or use Nexell products for any such unintended or unauthorized application, Buyer shall indemnify and hold Nexell and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Nexell was negligent regarding the design or manufacture of the part.

Copyright© 2017 Nexell Co.,Ltd. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electric or mechanical, by photocopying, recording, or otherwise, without the prior written consent of Nexell.

## Contact us

[11595] BundangYemiji Bldg. 12F, 31 Hwangsaek-ro 258 beon gil, Bundang-gu, Sungnam-city, Gyeonggi-do, Korea.

TEL: 82-31-698-7400

FAX:82-31-698-7455

<http://www.nexell.co.kr>

# Contents

<b>Chap 1.</b>	<b>Introduction</b>	<b>1</b>
1.1	Display Audio SDK for Linux.....	1
1.2	Feature.....	1
<b>Chap 2.</b>	<b>SDK Architecture</b>	<b>2</b>
2.1	Software Block Diagram.....	2
2.2	Software Packages.....	2
2.3	Documents .....	3

## 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

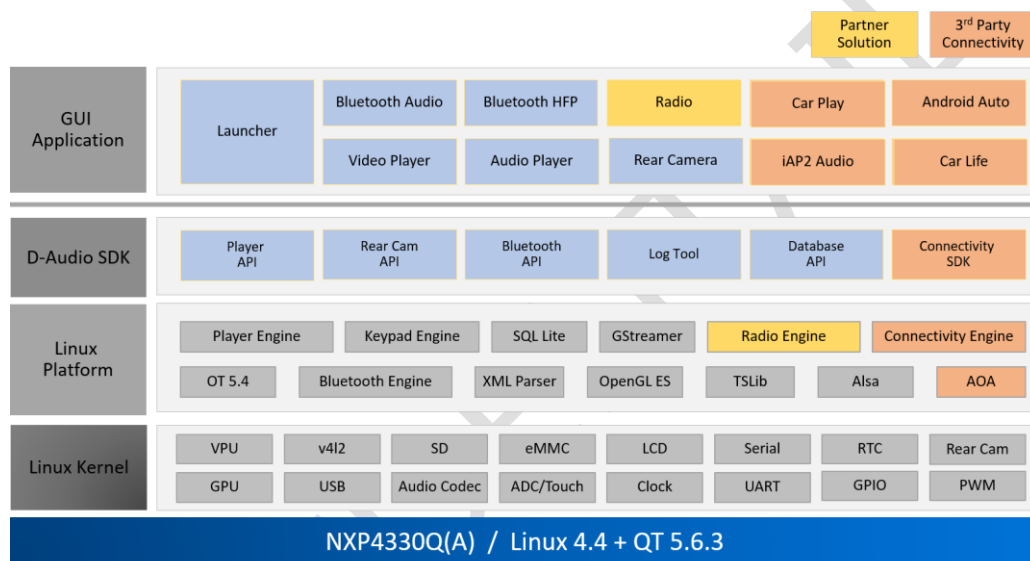
The Display Audio SDK provides the following features:

- 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.

- “bas\_server”  
Bluetooth service manager for cypress IP.

### 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.