



---

**CM7037 Demo Board**

**User Manual\_V101**

## NOTICES

THIS DOCUMENT IS PROVIDED “AS IS” WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, DOCUMENT OR SAMPLE.

ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING INFORMATION STORAGE AND RETRIEVAL SYSTEMS, WITHOUT PERMISSION IN WRITING FROM THE C-MEDIA ELECTRONICS, INC.

## COPYRIGHT

**Copyright© 2011-2017 C-Media Electronics Inc.**

All rights reserved. All content included on this document, such as text, graphics, logos, button icons, images, audio clips, digital downloads, data compilations, and software, is either the exclusive property of C-Media Electronics Inc., its affiliates (collectively, "C-Media"), its content suppliers, or its licensors and protected by Republic of China and international copyright laws.

## TRADEMARKS

C-Media, the C-Media Logo, Xear 3D, Xear 3D Logo, Speaker Shifter, Smart Jack, and Smart Audio Jack, Middleware are trademarks of C-Media Electronics Inc. in Republic of China and/or other countries. All other brand and product names listed are trademarks or registered trademarks of their respective holders and are hereby recognized as such.

\*C-Media reserves the right to modify the specifications without further notice\*

## **Cmedia Electronics, Inc.**

6F, 100, Sec. 4, Civil Boulevard, Taipei, Taiwan 106, R.O.C.

TEL: 886-2-8773-1100      FAX: 886-2-8773-2211

<http://www.Cmedia.com.tw>

For detailed product information, please contact [sales@cmedia.com.tw](mailto:sales@cmedia.com.tw)

## Revision Notes

Revision	Date	Description
V101	2021/12/19	First formal release.

## TABLE OF CONTENTS

SECTION 1 OVERVIEW.....	- 5 -
1.1 Introduction.....	- 5 -
1.2 Demo Board Contents.....	- 6 -
SECTION 2 GETTING STARTED.....	- 7 -
2.1 Board as USB Audio Device .....	- 7 -
2.2 I2S to DAC codec WM8728S Jumpx4.....	- 7 -
2.2.1 Playback Functions .....	- 8 -
2.3.1 CM7037 all Pin Header .....	- 9 -

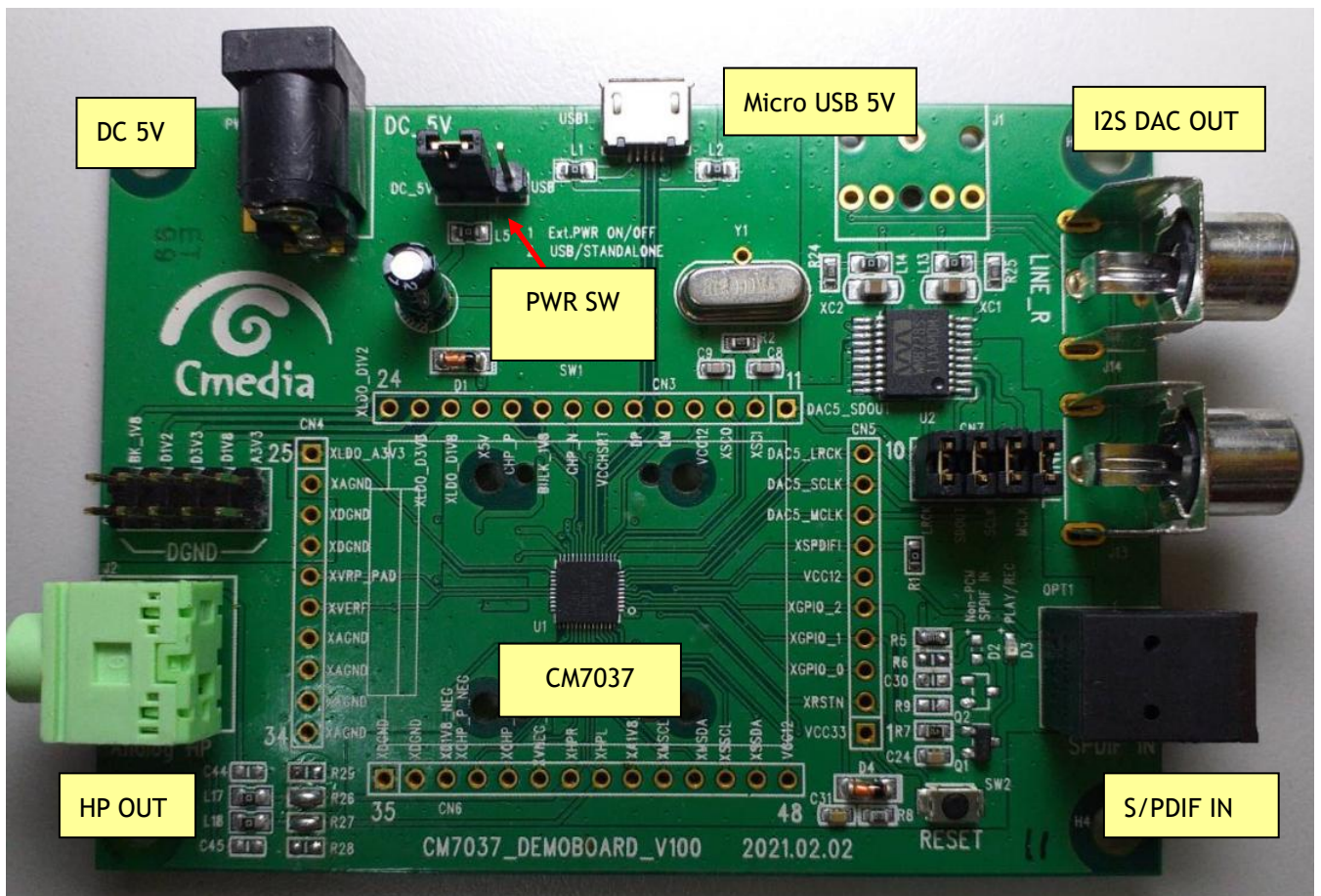
## SECTION 1 OVERVIEW

### 1.1 Introduction

The CM7037 is a S/PDIF in receiver to convert the audio data to I2S and analog out. The input audio format of SPDIF in signal can be detected automatically and convert to I2S and analog out. The CM7037 only supports standard IEC60958, PCM Audio data. If the data is non PCM, there will be no output for the I2S and analog out.

## 1.2 Demo Board Contents

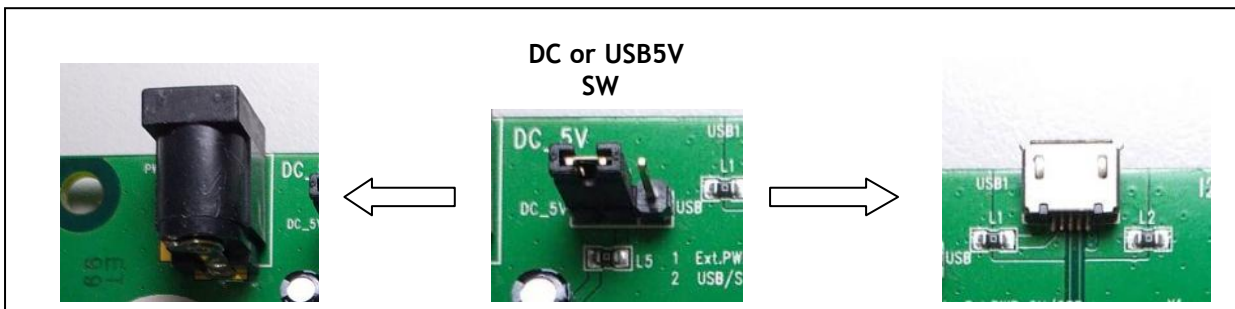
The CM7037 USB Audio controller evaluation board has several hardware features. With each feature's description in figure , the feature's location can be clearly identified.



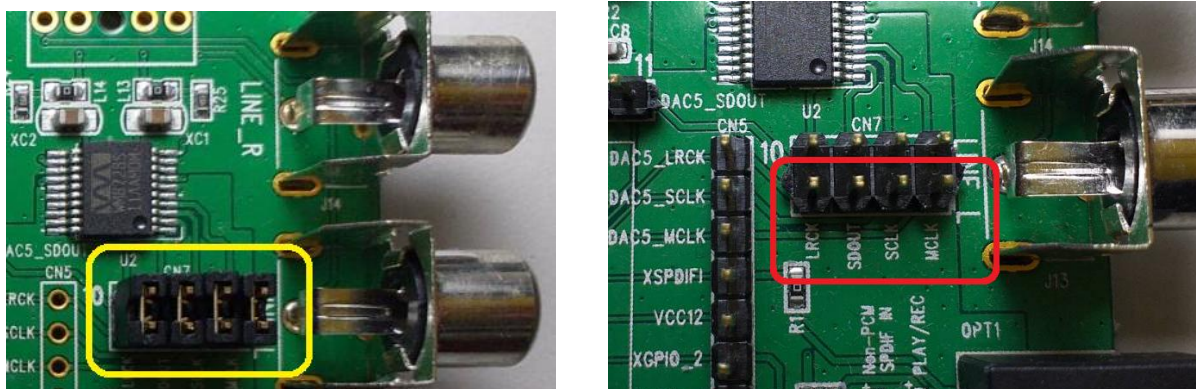
## SECTION 2 GETTING STARTED

### 2.1 Board as USB Audio Device

Connect to the host by plugging the USB cable with a Micro connector .



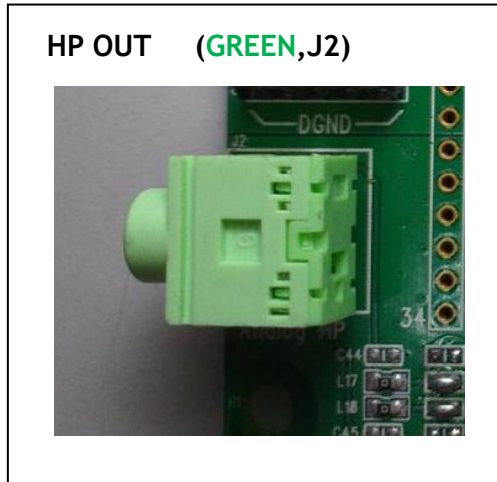
### 2.2 I2S to DAC codec **WM8728S** Jumpx4



CN7 , from left to right are LRCK,DOUT,BCLK and MCLK  
(CN7 jumpx4 is U2 codec out : Jump all NC is I2S output)

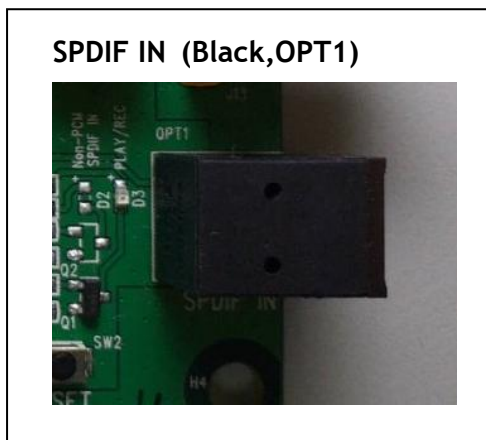
## 2.2.1 Playback Functions

CM7037 playback output Green jack.



## 2.2.2 Recording Functions

CM7037 S/PDIF in receiver.



## 2.3 Demo Board with Peripheral Control

### 2.3.1 CM7037 all Pin Header

