



10001010001100011100101010011010011010101010

# Portable DAB Solution

***TeleChips***

**Apr. 2006**

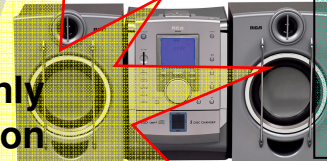
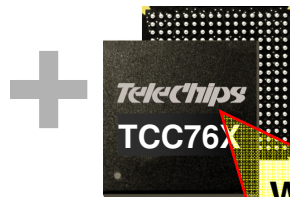


## *Contents*

- 1. Introduction of Telechips DAB Solutions**
- 2. Portable DAB Solution**

# DAB Solution - Convergence

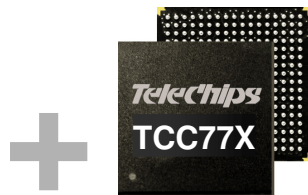
## • DAB, Home/Car Solution



World's Only  
One Solution  
USB Host  
CDMP3 + DAB

- ✓ *CDMP3 + USB Host + Dual Band DAB*
- ✓ *DAB Function*  
(DLS, EPG, Announcement, etc)
- ✓ *One Antenna Available*  
for DAB, FM, RDS Home Audio
- ✓ *Zappa Solution*

## • DAB/MP3, Portable Solution



- ✓ *Full Digital Audio*  
(Digital Radio + Digital Compressed Audio)
- ✓ *Compact size*
- ✓ *Support Time Shifting / DLS / EPG*
- ✓ *Ultra Low Power Consumption*
- ✓ *Audio DMB*  
(Supporting the audio listening on DMB)
- ✓ *WM-DRM10*

# DAB Portable Solution



+



+



+



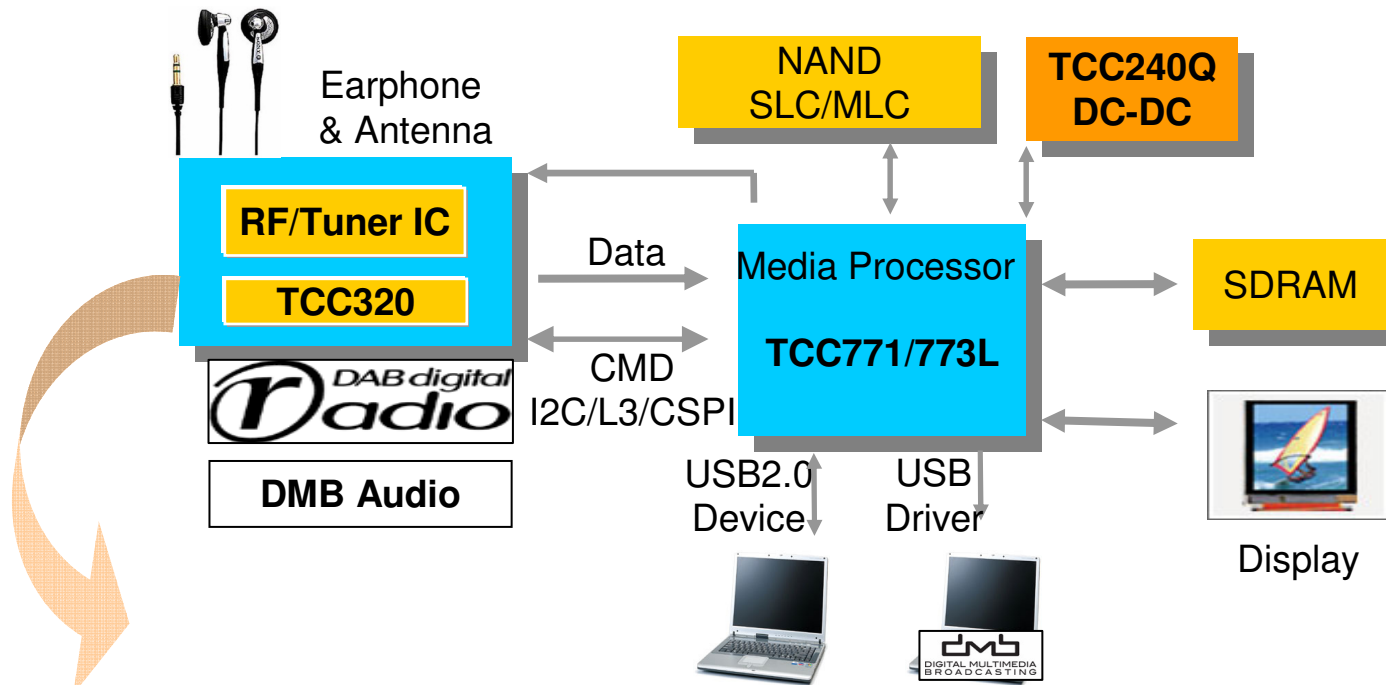
+



+



## For Portable Application



BAND III / Dual Band module (AEBP-8)  
 For Telechips Portable Customer  
 Solution : DAB Interface with TCC77X DMP Platform  
 Size : 30.0 X 20.0 X 2.5 (25 Pin)  
 Sample : Now

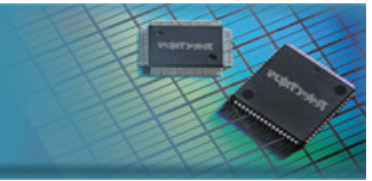
TCC771 : TCC770+CODEC  
 TCC773L :  
 TCC770+CODEC+2MB SDRAM



## Solution Benefits

- ✓ **Full Feature Digital Audio** Player (MP3/WMA & DAB)
- ✓ Band III Module (Dual Band Available), Earphone Antenna (Recommend)
- ✓ **Support:** Auto Search (Ensemble/Service Channel, Band Selection)  
Preset Function, Configuration Saving (Resume Function)  
EPG – Q1, Year 2006  
All Announcements (12 kinds of Information)  
DLS (Text Information display)  
*1Hr (192kbps bit rate) Time Shifting function & Bookmark on DAB*  
*Fast Scanning and Channel Changing*
- ✓ **DRM (Digital Rights Management) with Window Media Player 10 media**
- ✓ Support various MP3 Play Mode and Sound Effects
- ✓ Support multi-languages
- ✓ **Cost effective solution**

# DAB/MP3 Portable Solution



## • Major Specification

<b>Built-in Memory Capacity</b>	<b>Up to 4GB (SLC / MLC)</b>
<b>Channel Change</b>	<b>Acquisition &amp; Audio Play (U.K Local Scan : 8sec / Full Scan : 18sec)</b>
<b>Announcement</b>	<b>12 Announcement Service (Traffic, Transport, Service, News, Weather, Event, Sports, SPC-Event, PRG-INFO, Financial.... etc)</b>
<b>Supports Audio Formats</b>	<b>MP3 / WMA (WMA-DRM10)</b>
<b>Sensitivity</b>	<b>Typical BER <math>1e^{-4}</math> @ -98dBm</b>
<b>Preset</b>	<b>Up to 20 Channel Saving</b>
<b>Bit Rate</b>	<b>MP3 : 8kbps ~ 320kbps, WMA : 8kbps ~ 320kbps, DAB : 64Kbps~256Kbps(All Stations can be covered)</b>
<b>Output Frequency Range</b>	<b>30Hz ~ 20kHz</b>
<b>Input / Output Terminals</b>	<b>USB2.0 High Speed Data Transfer</b>
<b>Battery Type</b>	<b>1* AA alkaline Battery</b>
<b>Playing Time</b>	<b>Last up to - MP3 : 50Hr, DAB : 15Hr</b>
<b>Dimensions (W X H X D)</b>	<b>39 X 80 X 29mm (Including Protruding Parts)</b>
<b>Weight</b>	<b>40g (65g with Battery)</b>





**Thank you**