We Lead The Digital Radio Revolution
wireless digital audio semiconductor
technical innovator and leader

Your Reliable Partner in DAB

Albert Tseng
2018/1/11
What we provide to customers

† Performance proven IC/modules
† The advantage you will have with our IC/modules
  ♥ High Sensitivity
  ♥ Short development time
  ♥ Efficiency of production
  ♥ Reliability after sales
  ♥ Good Service throughout the product life
High Sensitivity

† Tick Mark approved with High Marging

Model: T4B

Tick Mark Report by DTG, report DAB-8314
High Sensitivity

Tick Mark approved with High Marging

Model: T4E

Tick Mark Report by DTG, report DAB-8315
Short development time

- We accumulated ample experience helping customers developing products, in the following pages are listed a few for reference, so
  - A lot of templates for you to choose
  - Variety of problems in different areas have been solved thus avoided in your product
  - Time to market
Efficiency of production

† Cost effective test equipment
   ♥ KeyStone supply the most cost effective signal generator, SABRE®

† Code change
   ♥ KS module support CUVBROS® which allows program code be upgraded by broadcasting

† Automatic Test
   ♥ KS module can be controlled by DATES® to conduct automatic test
Reliability after sales

Reliability comes from discipline

- All modules went through a well-defined rigorous testing procedure
- All test results are well-documented in a database
- Each module has a unique S/N with which all its testing record can be retrieved to know its healthiness
Many Customers Prove it
Good Service

✝ Before Design

♥ Guide line is provided to help engineers handle tricky RF issue
♥ Training is provided for design and test to ensure good quality

✝ During Design

♥ We provide Consultant and Review to schematics and layout
Good Service

† SABRE helps designer to do thorough test
† DATES make the test procedure completely automatic
† We have a well-equipped lab to give customer product a final test to make sure it is qualified for shipping
Some facts about us

† Company : Fabless IC/module design house,
† Established time : March, 2009
† Subsidiary of Prime
† Registered capital : 6.6 M in USD
† Headquarter : Science-Based Industrial Park, Hsinchu, Taiwan
† Branch office : ShenZhen, China
† Employee : 35 people
**Roadmap**

### 0.11 um process

**T3: FM/DAB/DAB+/DMB-R**
- Meet UK's new automotive ACS requirements,
- Super low-power at 120 mW,
- Better FM RDS/TMC reception.

### 0.13 um process

**T1/T2: FM/DAB/DAB+/DMB-R**
- Offer SLS/EPG/DLS+/TPEG features
- True single-chip in 1.1 cm x 0.8 cm,
- Lowest power and smallest form factor,
- Commercial and industry-grade modules,
- Embedded in mobiles, TVs, STBs, etc.
- Lowest power at 180 mW.

### 0.18 um process

**FM/DAB**
- 4-chip modules
- Smallest module size and lowest power in 2009

**Cherub**:
- DIY automotive solution
- Diversity Enhanced Performance
- Good Service Following

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**2004 ~ 2009**

**2010**

**2012**

**2013**

**2016**
**Roadmap**

**Oceanus**
- **Feature:**
  - DAB+/DAB/FM/RDS
  - Enhanced Multi-channel Data Service
  - Support Cost Effective Color Display

**T4**
- **Feature:**
  - DAB+/DAB/FM/RDS
  - Enhanced Multi-channel Data Service
  - Cost Effective single chip solution
  - Specially designed for Car solution, Mobile phone, Tablet or PC

**Mayim**
- **Feature:**
  - Monolithic DAB+/DAB/FM/RDS
  - Enhanced Multi-channel Data Service
  - Cost Effective single chip solution

- Specially designed for Car solution, Mobile phone, Tablet or PC
Kitchen Radio

- Philips AE5020
- Sangean DPR-16C
- Geneva Lab model M
- Philips BTB 2465
- Geneva Lab model S
- Geneva Lab model XS
- Geneva Lab World Radio DAB+
## Mini/Micro (con’t)

<table>
<thead>
<tr>
<th>Model</th>
<th>Image</th>
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</thead>
<tbody>
<tr>
<td>Pioneer CM31</td>
<td><img src="image1" alt="Pioneer CM31" /></td>
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<tr>
<td>Pioneer HM11</td>
<td><img src="image2" alt="Pioneer HM11" /></td>
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<td>Pioneer HM21</td>
<td><img src="image3" alt="Pioneer HM21" /></td>
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<tr>
<td>Pioneer X-HM31DAB-K</td>
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<td>Pioneer X-HM51DAB-K</td>
<td><img src="image5" alt="Pioneer X-HM51DAB-K" /></td>
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<tr>
<td>Pioneer SMC00</td>
<td><img src="image6" alt="Pioneer SMC00" /></td>
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</tbody>
</table>
Mini/Micro (con’t)

SonoroCD

SonoroHiFi Audio

Sonoro

SonoroHiFi Audio
Mini/Micro (con’t)

- JVC UX-D750
- JVC UX-D100
- JVC UX-D150
- NEON 1536D
Internet Radio with DAB(Con’ )

Telestar DABMAN i200

https://www.telestar.de/de_DE/DABMAN-i200/352-9266-10619/

Telestar DABMAN i200 CD

https://www.telestar.de/de_DE/DABMAN-i200-CD/352-9266-11234/
KeyStone Semiconductor

Kitchen Radio (con’t)

International Receiver Company (IRC) in Denmark
Dual in Switzerland
Digital Broadcasting Company (DBC) in HK

Wintal in Australia
Telefunken in Germany
TTMicro in Norway
Ennovia in Denmark
Kitchen Radio (con’t)

- Tevion (ALDI) in Germany
- Soundmaster in Germany
- Soundmaster MCB800D
- GPO Retro
- Thomson Australia
Kitchen Radio (con’t)

AEG

Dared in Europe

AKAI Retro

ViewQuest in UK

Albrecht DR881 in Germany

End customer: DBC in HK

TTMicro in Norway, IRC in Denmark, AGK in Denmark
DAB Iphone docking (con't)  DAB HiFi Tuner  Iphone DAB Dongle

- Nakamichi in Australia
- Dared in Europe
- Lingo in UK

Iphone Battery Pack + DAB

- Lingo in UK

CD Micro

Brand: United and Sailor in Switzerland
Car Adaptor (con’t)

Brand: HiTV in Australia

Connects2 in UK

Zenec in Switzerland

Auvisio (Pearl) DAB+ adaptor in Germany
In Car Stereo

Connects2 in UK
Photo Album

Manufacturer: Usmart
Brand: Usmart in HK and OEM (Lenoxx in Australia)
MP: Aug, 2011
Set-top box

†Eight in HK
Handheld Radio (con’t)

Usmart in HK

BT-Link in HK

Dual in Germany

Thomson in Australia

Ideal Radio in HK
Handheld Radio (con’t)

Technisat in Germany

Pearl in Germany

Thomson Australia

Stilus (Sailor) in Germany

Lingo in UK / HK / Czech Republic

DBC HK
Mobile Phone

† Manufacturer: ARS
† Brand: Macostar in HK
† MP: Aug, 2011
Bluetooth DAB headset

Lingo
Put KeyStone In Your System. Finished.

KeyStone Semiconductor
Your reliable partner in DAB solutions
Ask more with contact@keystonesemi.com
See more at www.keystonesemi.com

In God we trust
謝謝！

Win together!