



HP <http://www.trigence.com>

FB <https://www.facebook.com/Trigence>

You  **Tube**

https://www.youtube.com/watch?v=8HN_ddLBbmM

<https://www.youtube.com/watch?v=rZYt8VnPriQ>

Column

http://eetimes.jp/ee/kw/ee_eetweets.html

Overview

Company: **Trigence Semiconductor**

Bld 6F, 2-5-15 SotoKanda, Chiyoda-ku, Tokyo 101-0021 Japan

Trigence Semiconductor USA (100% sub in USA)

533 Airport Blvd, suite 400, Burlingame, CA 94010

Founded: 6/Feb/2006

Series-A: Mar/2012 by INTEL Capital

Series-B: Feb/2014 by INCJ and INTEL Capital

Business: Technical license sales

LSI sales which embedded in licensed technology

WallCoil
www.blog-wallpapers.blogspot.com

Our Dream

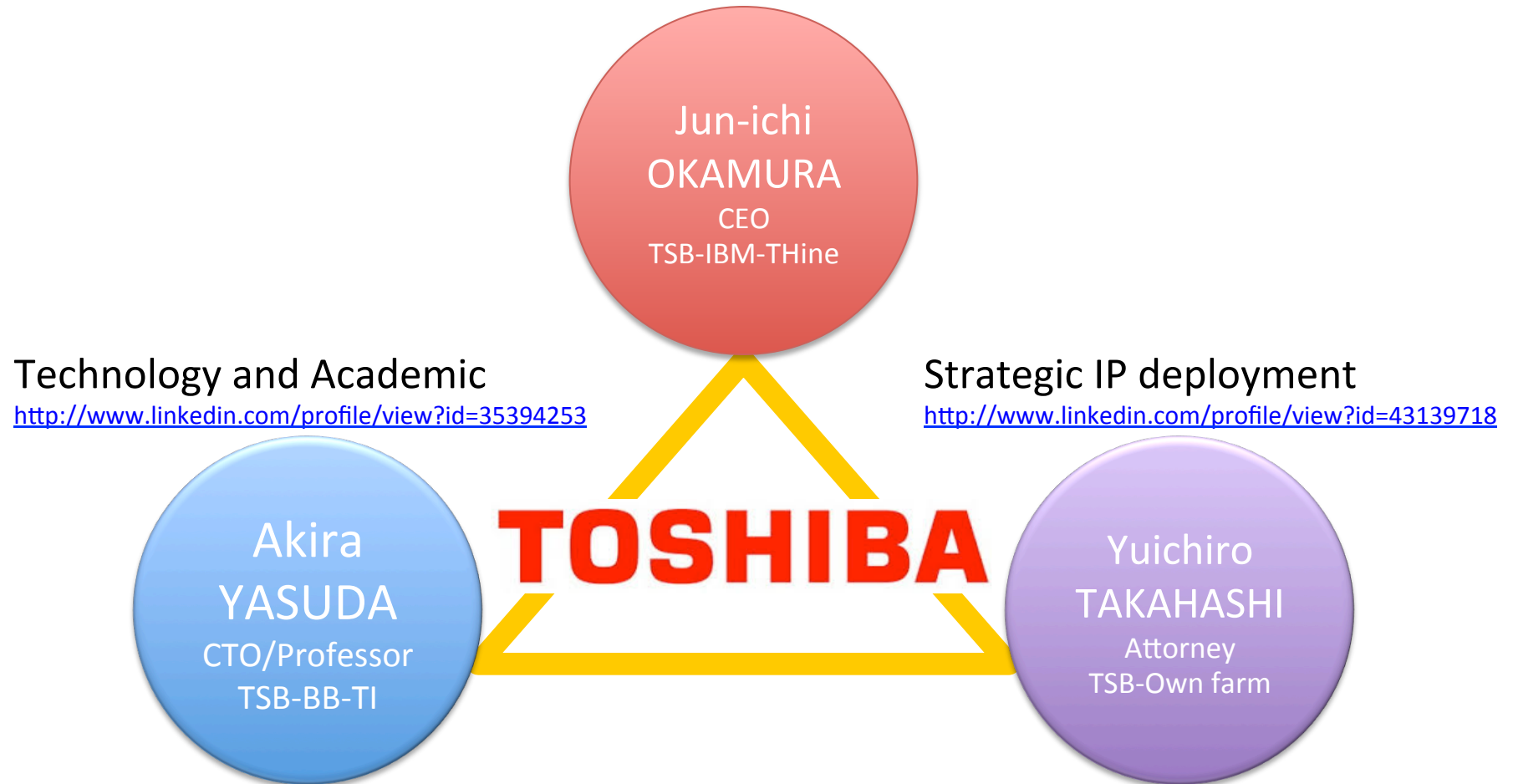
- Conventional audio playback system has been realized by single voice coil driven with analog signal which was invented at over 90 years ago.
- We provide, Dnote[®], fully new digital playback solution with multi-coil speaker. This improve power efficiency and low voltage capability, then it can support all voice or audio human interfaces by digital Si technology.
- **Our dream is replacing all conventional audio system by Dnote technology in future.**

The moving-coil principle commonly used today in direct radiators was patented in 1924 by Chester W. Rice and Edward W. Kellogg.

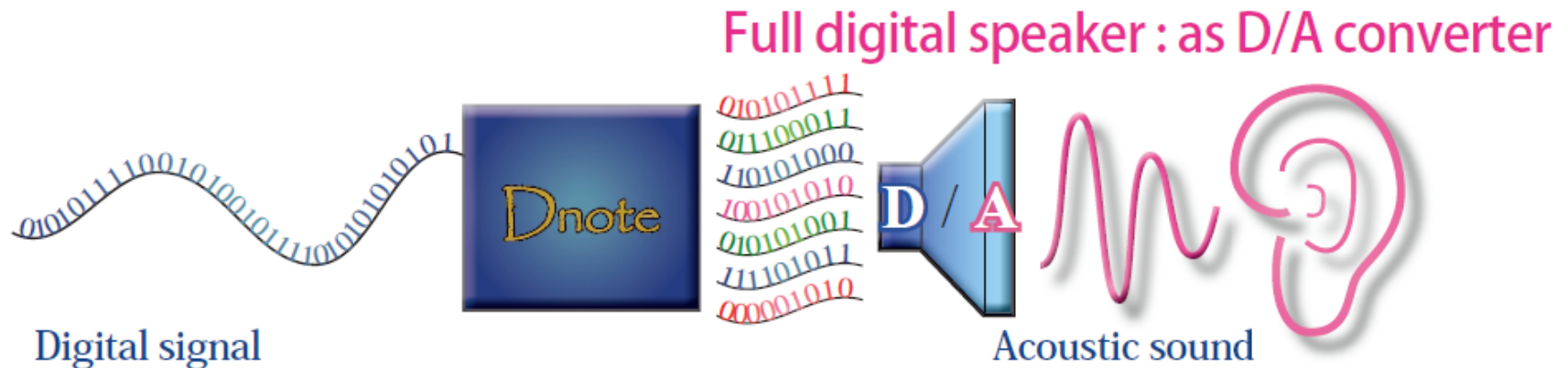
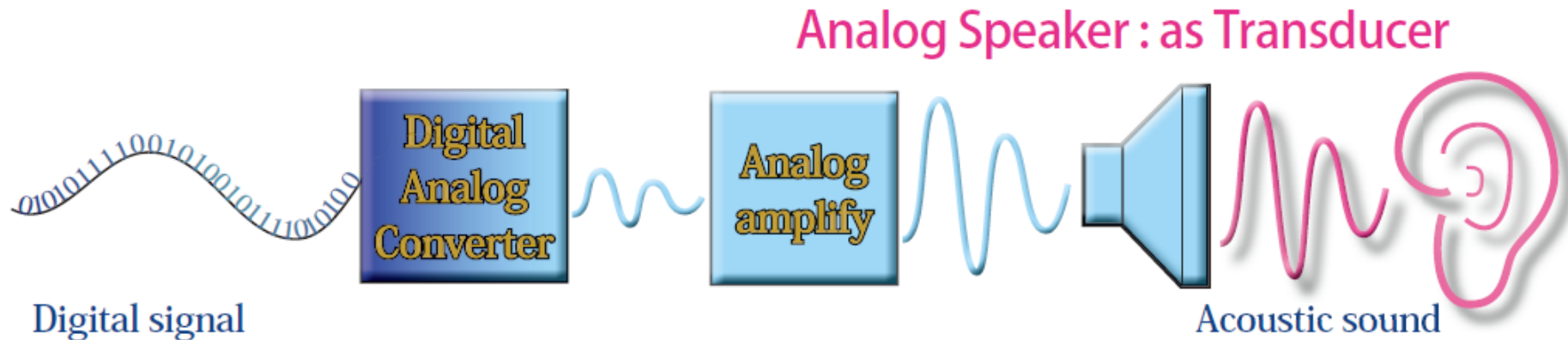
Founders

Execution and Experience

<http://www.linkedin.com/profile/view?id=35815532>

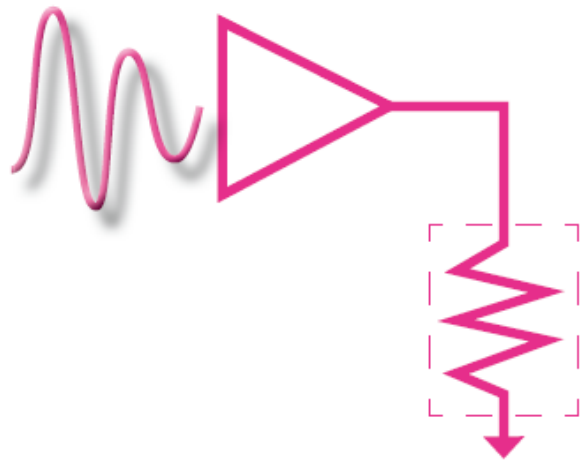


What is our invention



Differentiation

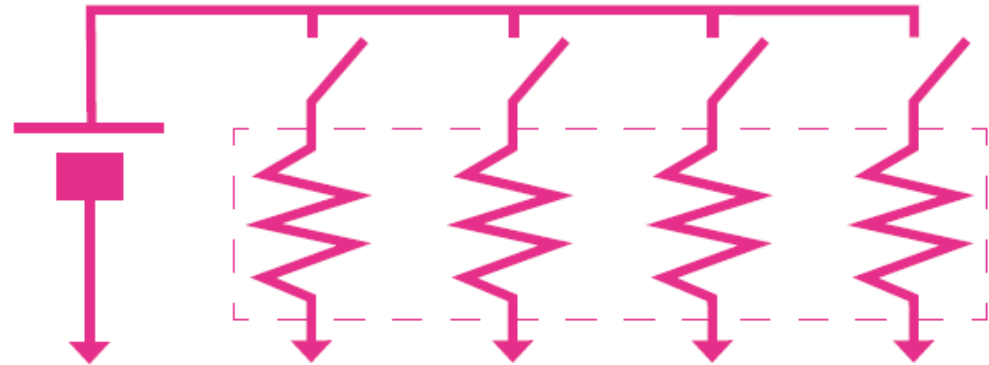
Conventional
Analog Speaker



$$P = V^2(t) / R_{SP}$$

Power is ratio of **voltage** that is amplified by analog driver.

Digitally Driven Speaker
(Dnote)



$$P = V^2 / R_{SP}(x)$$

Power is ratio of **impedance** that is switched by Dnote digital processing.

Enabling Innovations in Digital Audio with Dnote™

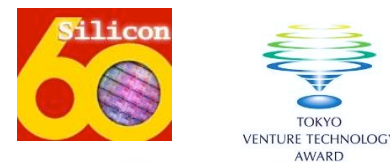
Entirely digital audio output stage, implementable on generic CMOS. Offers substantial power savings, and unlocks static architecture of traditional output stages to permit future innovation

Products: Full digital audio peripherals



Market Proven Technology
High Efficiency / Low Voltage / High Resolution

Solution: multi-coil with digital processing



Innovate Concept / Patent Protected

Mobile: Digital Speaker Module



Intelligent speaker module with digital I/F
Digital assist for quality enhancement

Partnership: Production equipment



Global leader of mobile speaker equipment
Strategic investment and alliance
WW connections with speaker suppliers

Proof of concept on mobile platform

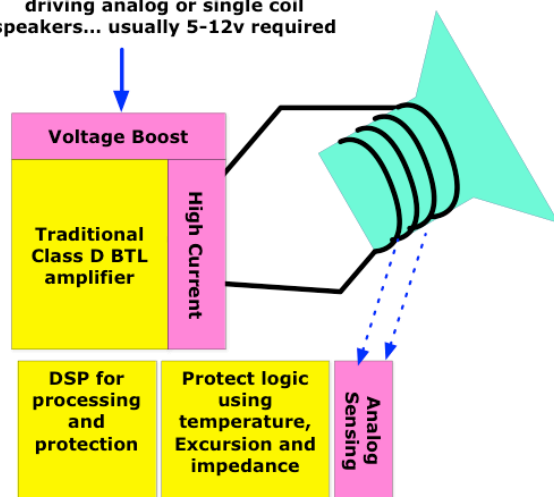
IDF14



- Trigence* technology driven multi-coil speakers from AAC* can provide a good enough fidelity with lower power than other traditional Class D amplifiers

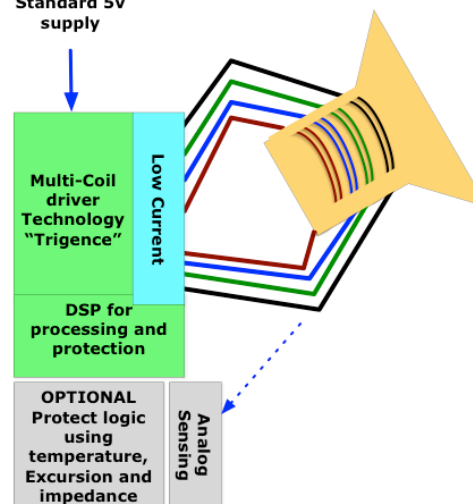
Traditional Class D (PWM or PDM) amplifier with Boost and Protection Logic

High Voltage and Current used for driving analog or single coil speakers... usually 5-12v required



Trigence technology multi-coil speaker

Standard 5v supply

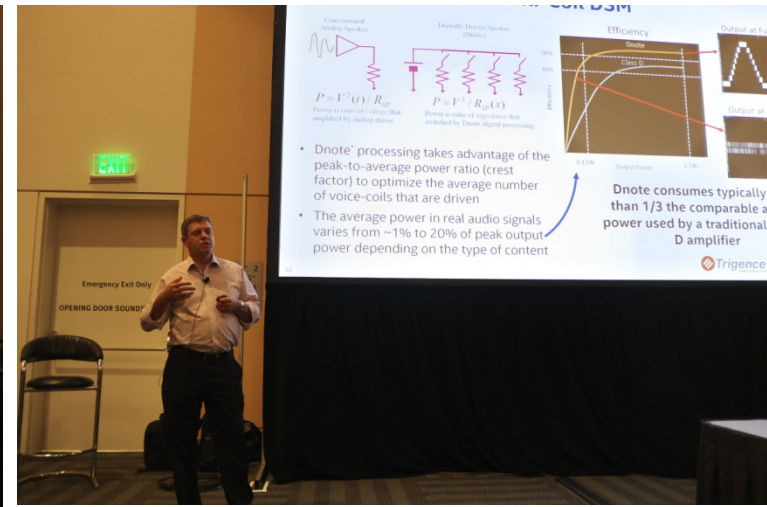


https://intel.activeevents.com/sz14/connect/sessionDetail.wv?SESSION_ID=1207

Computex Taipei 2014



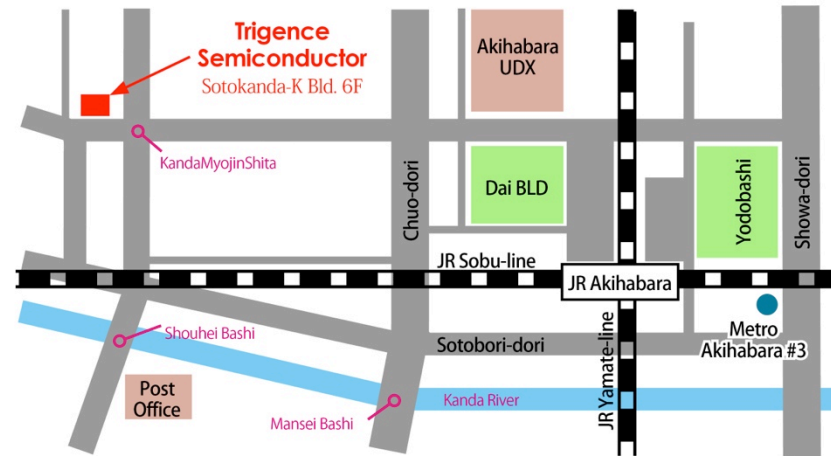
IDF2014@SanFrancisco



2014/10/16 Debut



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