

# Paul McLane

*Editor in Chief, Radio World  
And Managing Director, Content  
Future/NewBay*



# Impact of Chapter 11 Mess

- Two major corporations in debt protection
- Field: “The bankruptcies have nothing to do with radio”
- Gravley: “Radio’s best days are still ahead”
- Prasad: “Broadcast radio is a Trojan horse to grow other businesses”



# How Deregulatory Can We Get?

- ~~Main studio rule~~
- ~~Newspaper/broadcast cross-ownership~~
- ~~Correspondence file~~



# How Deregulatory Can We Get?

- What next?
- AM/FM per-market ownership sub-caps?





# How Deregulatory Can We Get?

- What next?
- FM Class C4?
- AM technical rules?



# Radio Ponders Shifting Media Habits

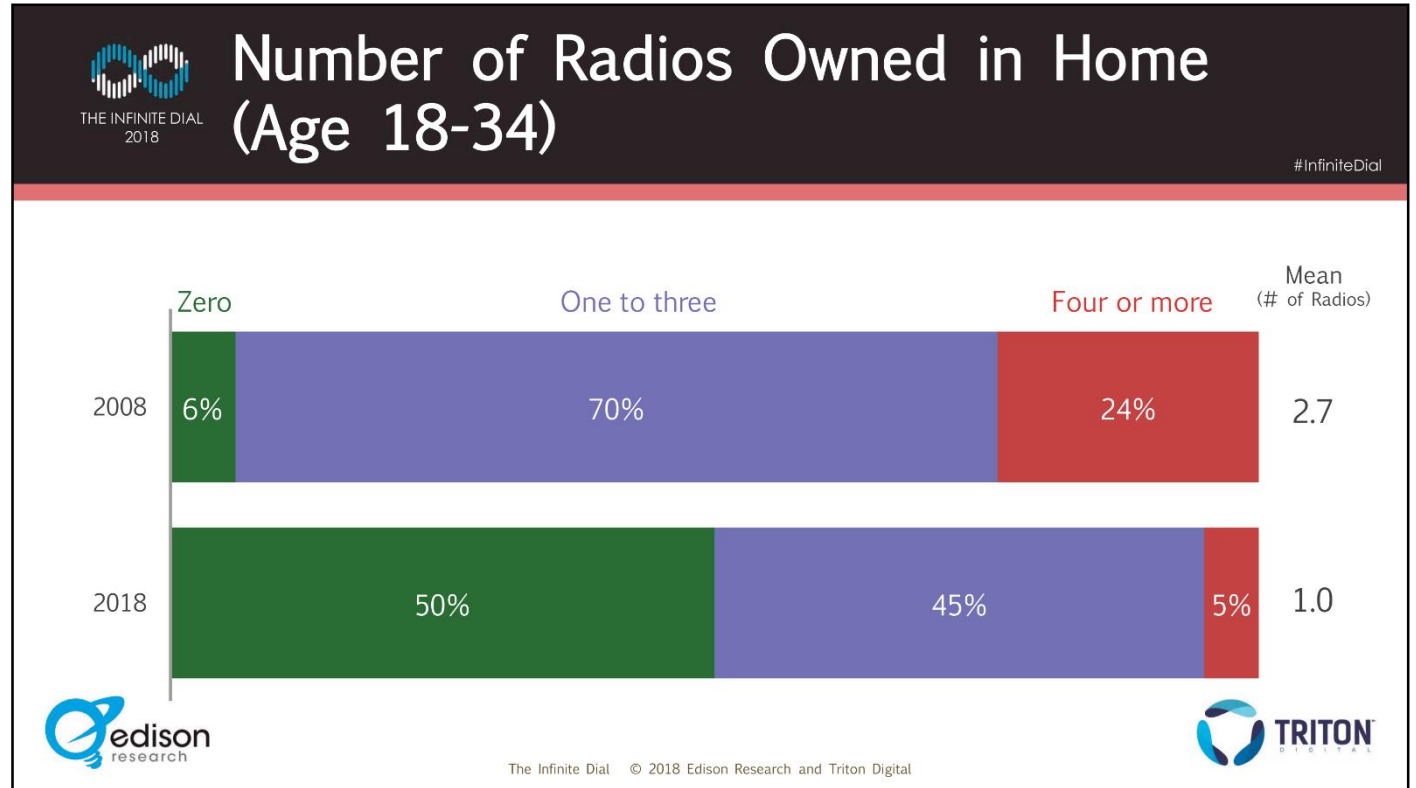
*“With the surge in smart speaker ownership and the continued growth of podcasting and streaming audio, it is more important than ever for brands to have a holistic audio strategy.”*

Tom Webster,  
Edison Research



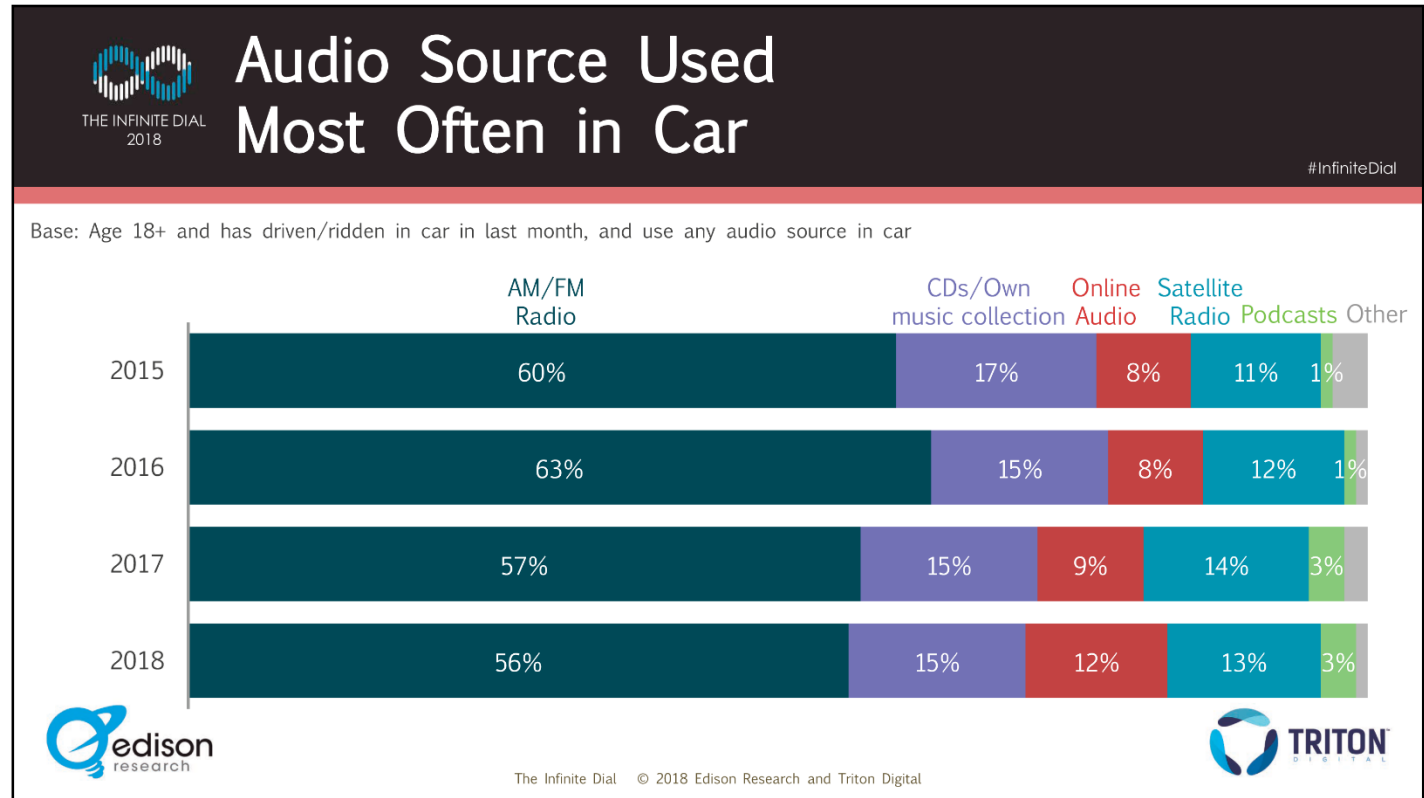
# Smart Speakers: Radio Goes Home?

- Smart speaker ownership doubled ...
- ... 51 million Americans have one in the house
- Faster uptake than early smartphones
- Context: Decline in standalone radio ownership



# In-Dash Revolution Is Just Getting Started

- AM/FM is still the audio source used most in the car ...
- ... but losing share
- ... and just 15% of peeps even have an in-dash infotainment system yet





# JVC/KENWOOD Aftermarket Head Units Enabled with NextRadio

- Abalta WebLink software enables carmakers to customize infotainment services
- “First enhanced AM/FM radio experience in the connected car”
- User needs supported
- head unit and WebLink app on smartphone



**JVC**

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Home > Multimedia > KW-M845BW

2-DIN AV Receiver  
**KW-M845BW**

Digital Media Receiver featuring 6.8" Clear Resistive Touch Monitor / Apple CarPlay / Wireless Android Auto / WebLink / High-Resolution Audio / iDataLink Maestro Ready / Bluetooth® / 13-Band EQ

Picture(5)

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Hi-Res AUDIO

K2 TECHNOLOGY

6.8" WVGA

iDataLink maestro

pandora®

Spotify

SiriusXM READY

# Gracenote Highlights Radio Station ID

- Lets occupants programs by radio formats, station logos and locations
- Uses ACR to deliver song metadata & cover art
- Automatically provides available local station info as drivers move in and out of signal range
- Now integrates with Apple CarPlay



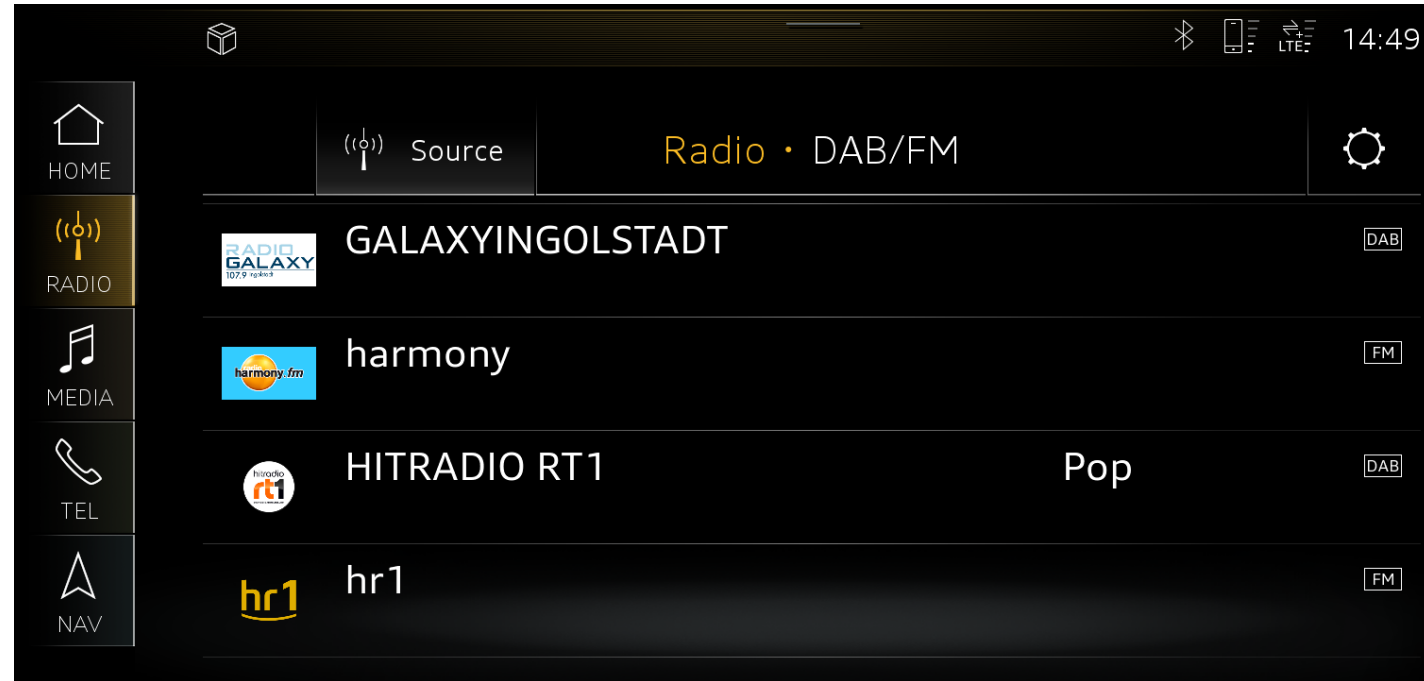
# NAB DASH Committee Is Up to ... Stuff

- NAB Automotive Digital Dashboard Committee
- “All the work is starting to pay off.”
- Broadcast meetings with automakers, aftermarket suppliers and consultants.
- Project pending?



# Radio DNS Hybrid Radio in Audi A8

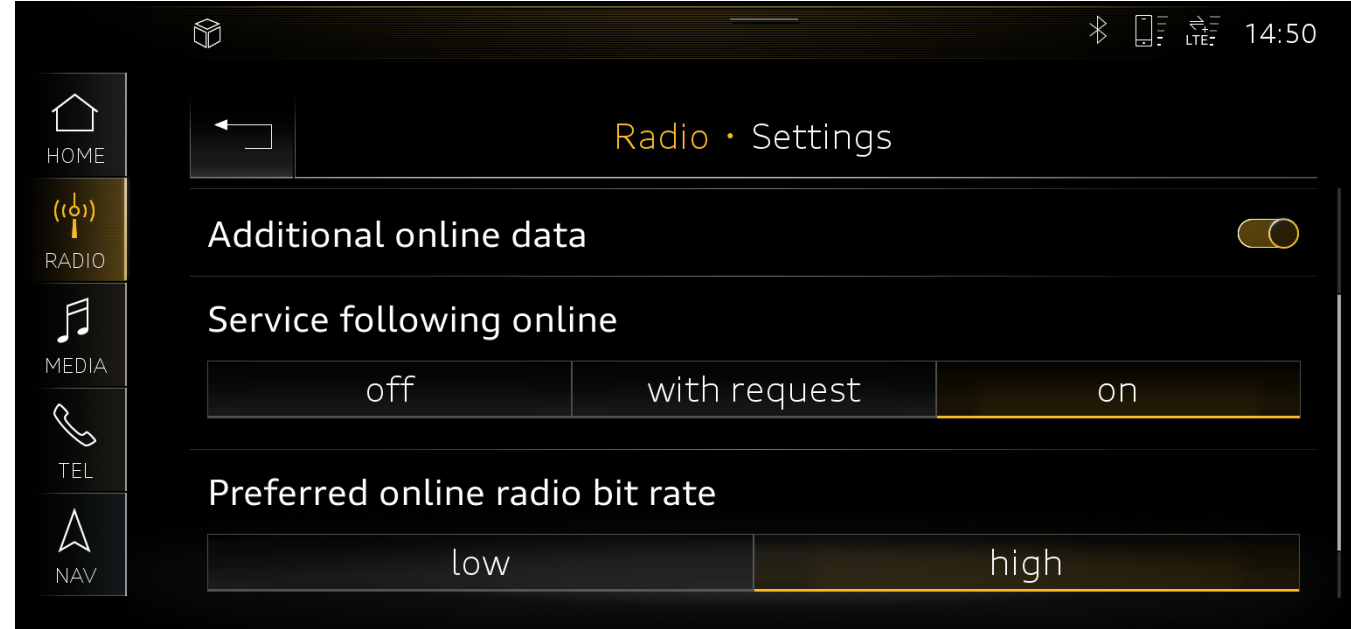
- Open technology standards of RadioDNS
- Launched in the Audi A8 in Europe last autumn
- Planned in other Audis, other regions, and in Porsche and VW





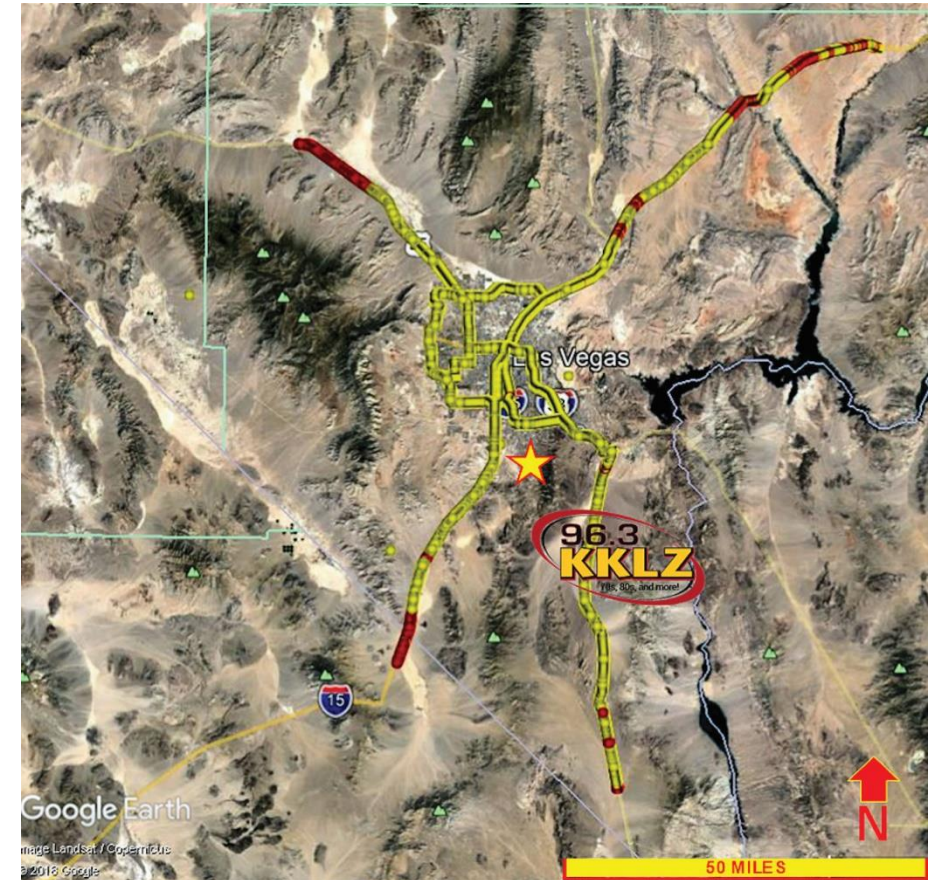
# Radio DNS Hybrid Radio in Audi A8

- If signal is weak, switches to streaming and then back when signal improves
- Recalling a preset will start streaming if station can't be found on broadcast
- “We’re working with other car manufacturers globally to integrate RadioDNS into their vehicles.”



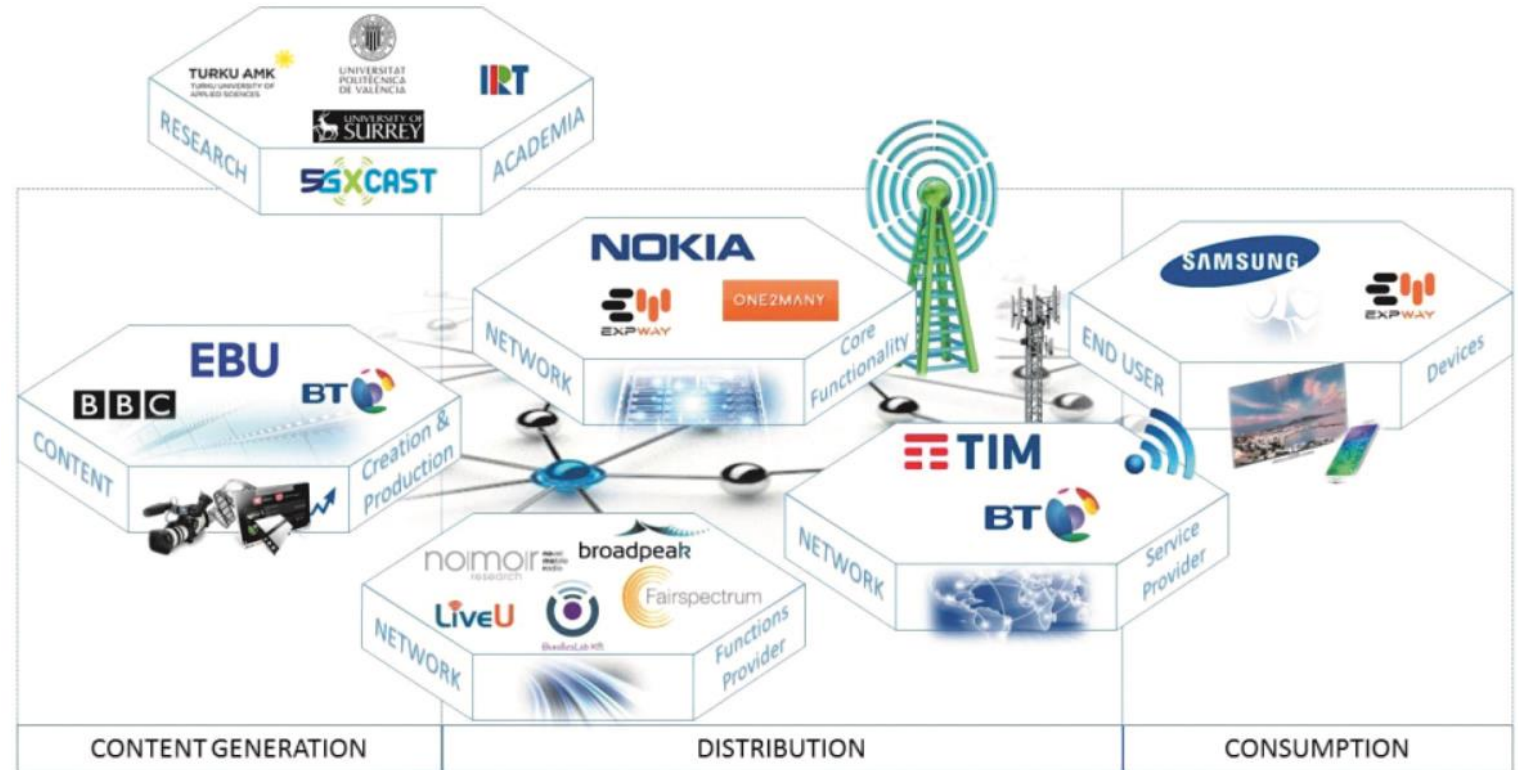
# All-Digital FM Field Test and Live Demo

- Pilot reports test data in Sunday session
- Project used Beasley's KKLZ(FM) in Vegas
- Live Pilot demo in Futures Park featuring 12 HD Radio audio services from a single transmitter



# 5G ... Who Cares?

- What it is
- Sessions at NAB
- Coverage in Radio World
- Who cares?





# Blockchain ... Who Cares?

- What it is
- Sessions at NAB
- Coverage in Radio World
- Who cares?





# ... Oh, and the Exhibits ...

Wheatstone PR&E EMX-IP  
Digital Audio Console



Calrec Type R  
Modular IP-Based System

# ... Oh, and the Exhibits ...



ENCO ClipBoard IP  
control surface

# ... Oh, and the Exhibits ...



Telos Infinity IP Intercom

# ... Oh, and the Exhibits ...

Davicom Cortex360  
Remote Site  
Management System





# ... Oh, and the Exhibits ...

ALDENA SEP –

Selective Electric  
Isotropic Triaxial  
Antenna

EMF measuring  
equipment in 100 kHz  
to 3.6 GHz Frequency  
Range



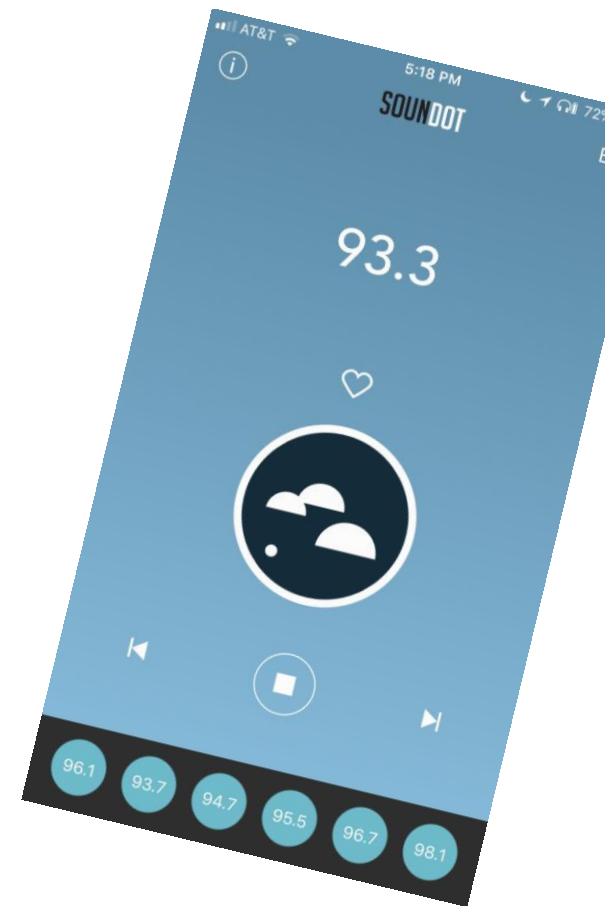
# ... Oh, and the Exhibits ...

Heil Sound  
PR 77D Professional  
Dynamic Microphone

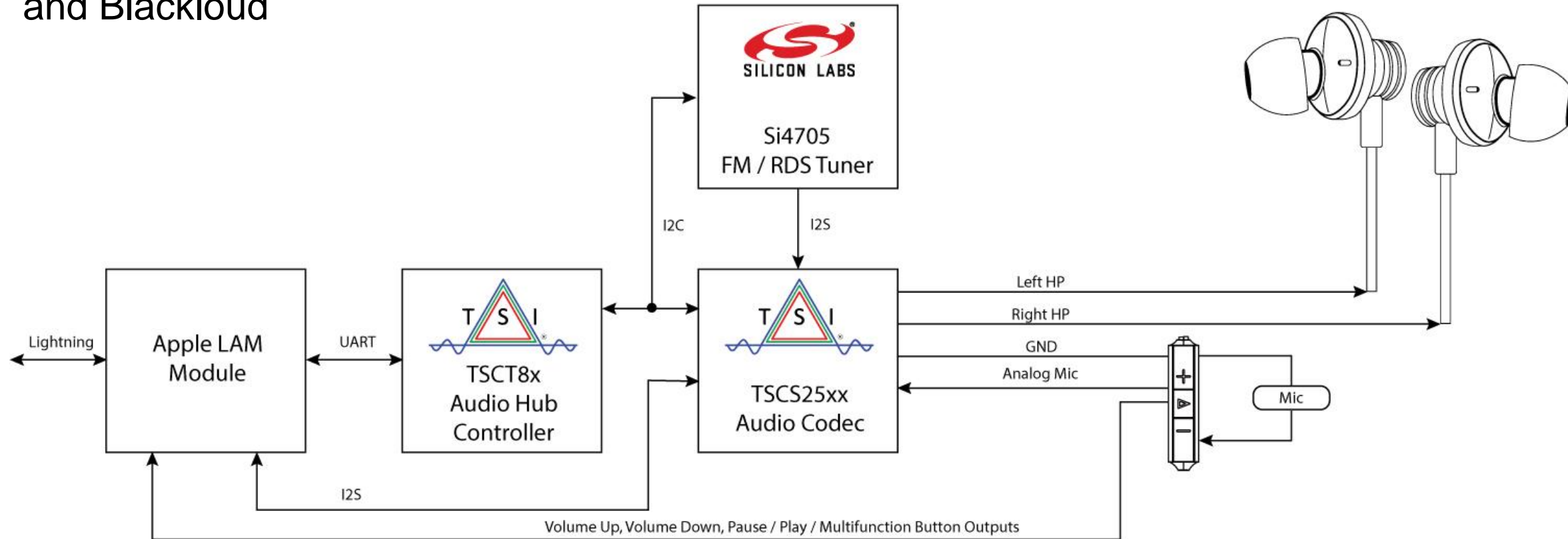


# SOUNDOT from BLACKLOUD

- “App-controlled, FM tuner-enabled headsets”
- Embedded FM digital tuner IC with RDS
- iOS and Android apps with FM/DSP control
- Pre-orders \$59.89, \$79.89




# A collaboration of Tempo Semiconductor, Silicon Labs and Blackloud





# Paul's Virtual T-Shirt Cannon

- Seen only at the NUG
- Can Paul reach back of the room?
- Any color (as long as it's black)



**TSHIRTGUN.com**

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## T-Shirt Gatling Gun

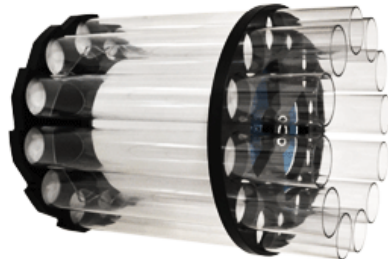
\$4000.<sup>00</sup>



The T-Shirt Gatling Gun is one of two new Gatling Gun models from tshirtgun.com. It is self loading and capable of shooting 8 shots per second with a range of up to 150+ feet. The Stress Ball Gatling Gun comes standard with : 2 -6 volt batteries, a mobile cart, wheels (choice of two options - inside non-skid urethane or outdoor turf wheels), & tool kit.

MANUFACTURED AND ASSEMBLED IN THE USA!

\* 20 lb. non-siphoned CO2 tank required for operation is NOT INCLUDED



**SAVE \$500**  
Get both heads for \$5499!  
Shoot Stress Balls and T-shirts!

BUY NOW ONLINE

# Thank You



*... and 41 years of:*

