

High-quality Wireless
Spatial Audio



WiSA Technologies, Inc.
Q3 2023 Results
November 15, 2023

Forward Looking Statements



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What is Multi-Channel Spatial Audio?

*Spatial audio refers to an audio experience that uses **multiple and separate channels of audio** played back on **multiple discrete speakers** to create an immersive audio experience that **leverages a 360-degree space***



*WiSA powers a **wireless spatial audio experience**, enabling the **transmission of multi-channel, high-bitrate, uncompressed audio streams** to deliver an immersive spatial audio experience without the need for a traditional wired solution*

Where Does WiSA Fit Into the Spatial Audio Ecosystem?



Ecosystem Requirements for Spatial Audio

Content Publishing and Distribution

Spotify, Tencent, Amazon, YouTube, etc.

Infrastructure and Connectivity

Wi-Fi network

Spatial Audio Decode

Dolby Atmos, DTS-X, Spatial

Wireless Transport

Wireless Interoperability Standard



- Ⓜ Precise synchronization across multiple disparate speakers to create spatial audio sound fields
- Ⓜ Seamless mix and match of audio sources and speakers / headsets as desired
- Ⓜ Guaranteed wireless link reliability
- Ⓜ Ability to transmit multi-channel, high-bitrate audio streams
- Ⓜ Extremely low latency

- Ⓜ Standard for Interbrand connectivity vs proprietary solutions like Sonos/Roku

Blue-Chip Customer Base



BANG & OLUFSEN

buchardt

DYNAUDIO

ENCLAVE



Hisense

JBL



Klipsch



Platin

PIEGA
SWITZERLAND

TCL

SAVANT



Skyworth | *Metz*

VEDDAN

Wharfedale

Bringing Spatial Audio to the Mass Markets

WiSA HT

(Home Theater)

- 5GHz with DFS support
- 8 channels
- Fix Ultra low latency (5ms)
- Tight speaker sync
- 24-bit audio
- Up to 96KHz sample rates

WiSA E

(DS Module)

- Low-cost 2.4GHz IoT transceiver
- (4+Sub) audio channels
- Fixed transport latency (40ms)
- Tight speaker sync
- 16-bit audio
- 48KHz sample rate

WiSA E

(Enterprise Modules)

- 5GHz IoT transceiver
- 8 audio channels
- Fixed transport latency (20ms)
- Tight speaker sync
- 24-bit audio
- 48KHz sample rate
- Initial launch was 7/15

WiSA E

(Embedded Software)

- 5GHz IoT transceiver
- 8 audio channels
- Fixed transport latency (20ms)
- Tight speaker sync
- 24-bit audio
- 48KHz sample rate
- High volume Tx applications (> 1Mu/yr.)

Custom ASIC

2015 – 2021



2022



Software (RTOS, Linux)

2023



2024

- **Design Target**

- 5.1.4 channel cost effective solution for traditional and ATMOS soundbars
- Platin Audio started shipping with DS module this month



- **48-hour promotion:**

MSRP **\$799**

Sale **\$699**

Promo **\$649**

Promo Code: WISA E ends, 11/16



Sources

TVs



Gaming
TVs



Projectors



Use Cases

Soundbars



Separates



Headphones



Subs & Atmos Rears



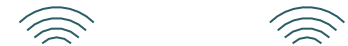
Combinations



System Configurations

Wireless Connection
to Soundbar System

Wireless Connection
to Separates System



TV Speakers +
Wireless Connection
to External Speakers



High performance wireless audio that:

- Has zero cost to the TVs bill of material
- Has high audio channel count to support Dolby Atmos and Atmos Music
- Has interoperability between brands
- Has speaker companies committed to the WiSA ecosystem
- Can be ported to multiple SoCs within each brand

Lower cost to consumers while improving the audio experience

WiSA E launch is dramatically faster than the original HT launch. Stats from the first 90 days:

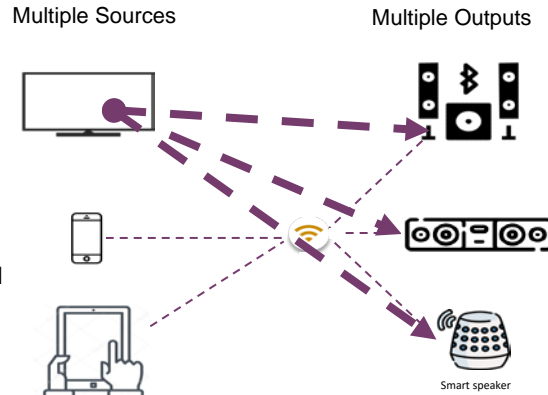
- 60+ meetings/presentations/demos across 30+ companies
- 13 Display brands (TVs and Projectors)
- 7 display brands reviewing licensing agreement, expect more
- 85 development boards have been shipped to customers

WiSA will be demonstrating embedded WiSA E on tier one TV at CES

Driving Wireless Audio Interoperability between HDTVs, Soundbars and Speakers

Strategy

- ✓ Dominate the link between TV and external audio (soundbars and speakers)
- ✓ Eliminate cost redundancy in the TV/soundbar architecture
- ✓ Extend TV Success to other smart devices like set top boxes, smart phones, smart speakers



Long term revenue opp.

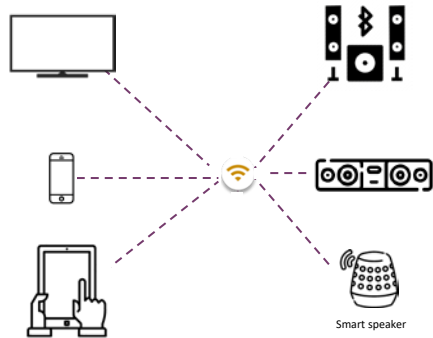
- ✓ RX software and hardware/modules
- ✓ Custom work for non-WiSA E implementations
- ✓ NRE for custom SoCs
- ✓ Annual support contracts

WiSA E

Embedded

Multiple Sources

Multiple Outputs



Embedded TV / SoC

(WiSA software running on third-party chips and OEM hardware)

- Materially impact 2024 Revenue
- Expansion to other use cases at CES and in 2024
- TV partner announcements
- Speaker partner announcements
- Strategic partnering

Key Highlights

1

Strong IP position and significant patent coverage for immersive audio, with highly-differentiated multichannel wireless audio technology and existing implementations in premium audio brands

2

WiSA E market opportunity to unify market for wireless audio solutions for TVs and soundbars that is software based and interoperable

3

World-class premium technology ported to low-cost IoT chips to address mass market audio systems with software roadmap to address TAM of over 2 billion units

4

Establishment and management of the Wireless Speaker and Audio Association (WiSA, LLC) with interoperability specification, testing, and compliance standard

5

30+ brands have designed WiSA technologies into their products



WiSA and Platin Audio