

High-quality Wireless
Spatial Audio



WiSA Technologies, Inc.

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* WiSA Ready TVs, gaming PCs and console systems are "ready" to transmit audio to WiSA Certified speakers when a WiSA USB Transmitter is plugged in and a user interface is activated through an APP or product design like LG TVs.

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Key Highlights

- 1 WiSA E's launch marks a major inflection point for the industry and the company
- 2 WiSA E licensing has commenced within the HDTV/PTV and STB market, boasting potent software transmission (TX) offerings
- 3 Strong IP position and significant patent coverage for immersive audio, with highly-differentiated multichannel wireless audio technology and existing implementations in premium audio brands
- 4 Uniquely driving interoperability between brands and devices with WiSA LLC (Wireless Speaker and Audio Association)
- 5 WiSA E is being launched into the company's existing premier customer base

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, uncompressed audio streams** to deliver an immersive spatial audio experience without the need for a traditional wired solution*

Immersive Audio In The Home With WiSA E



Immersive Audio Formats: Dolby's Atmos, Google's IMAF, Xperi's DTS X

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
- Ⓢ Strong 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

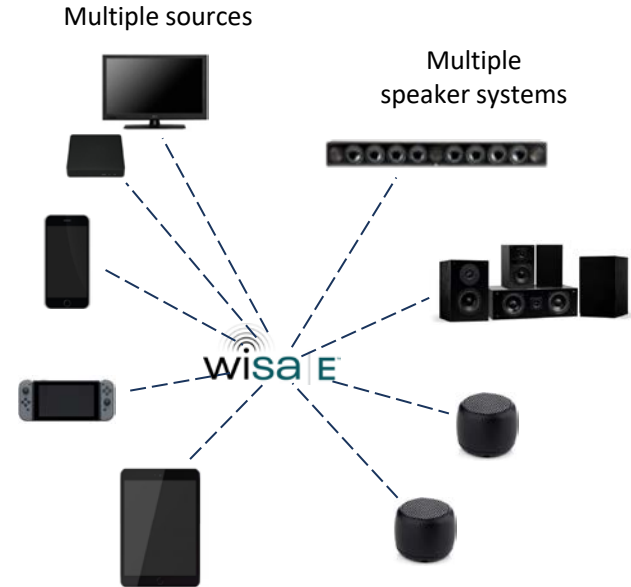
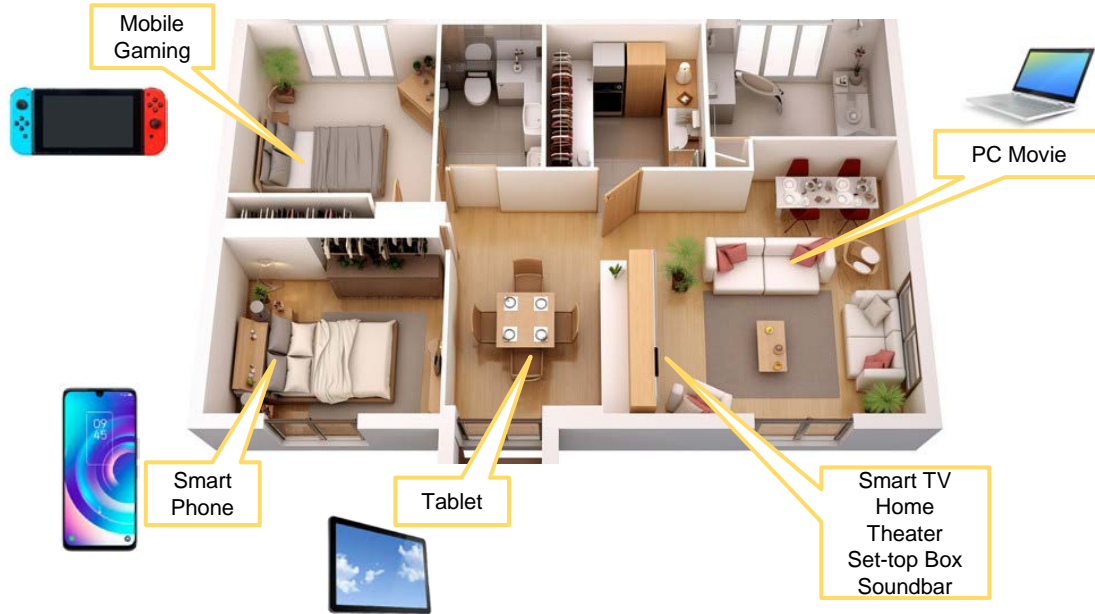


Skyworth | Metz

VEDDAN

Wharfedale

Today: The Home is the Theater



Software is the Key - Licensing is the Vehicle

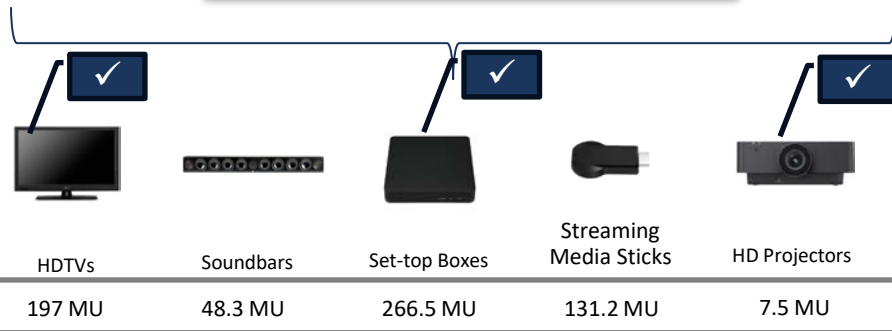


5 Licenses Signed
More in review



WiSA E*

- Designed to be agnostic to SOC and Wi-Fi vendor
- Designed to offer interoperability between brands

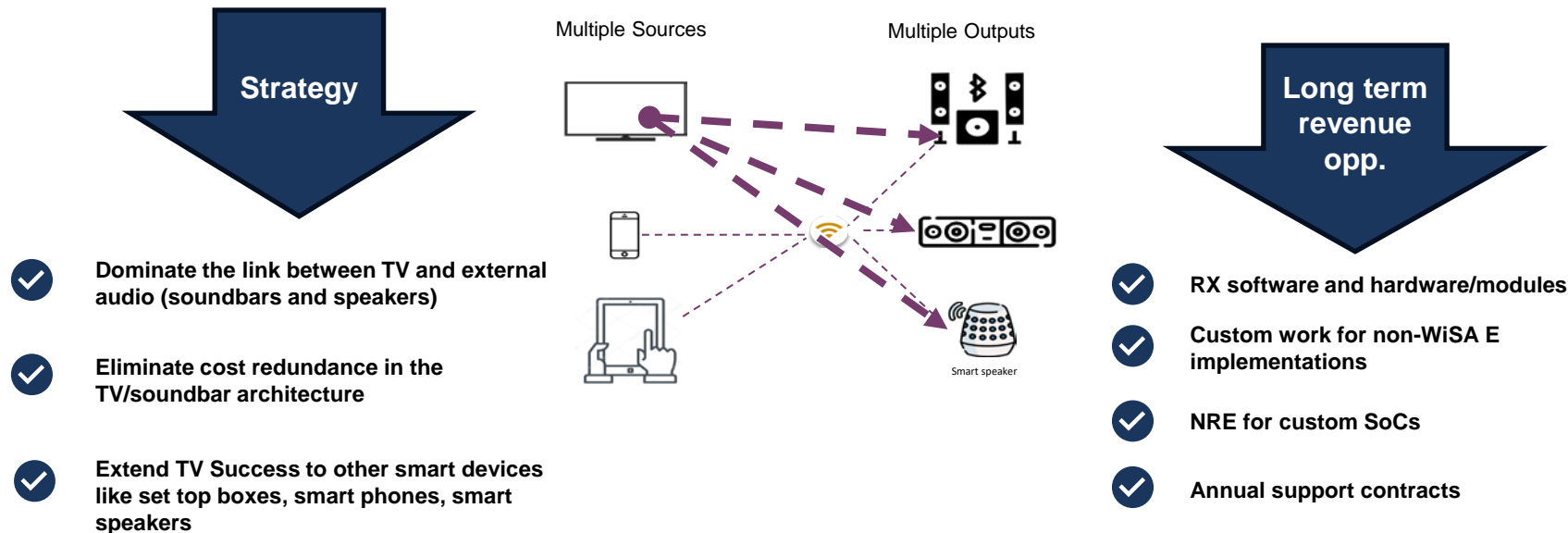


* Initial implementations for Android operating systems

¹ Unit volumes are for 2023 shipments

- Three implementations shown at CES
 - 2 in WiSA's suite
 - 1 in a STB ODM suite
- Software TX meets performance requirements while adding \$0.00 to BoM cost of STB and streaming media devices
- Royalty can be triggered upon activation of audio feature by consumer purchase of speaker system
- Demonstrate software running on:
 - Onn Media Streamer
 - Set top box platform

Driving Wireless Audio Interoperability between HDTVs, Soundbars and Speakers



WiSA E LICENSING PROGRAM OFFERED TO WiSA ASSOCIATION MEMBERS

Sources

TVs



Gaming
TVs



Projectors

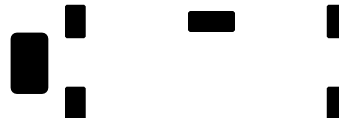


Use Cases

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



Licensing Process

- Customer evaluates and tests WiSA E's performance
- Base license agreement is negotiated for each licensee and could include:
 - Royalty rate
 - Activation pricing
 - Engineering Services
 - Speaker module pricing
- Brand decides on go-to-market strategy

SAM Calculation per Million TV/STB Devices

- Industry external audio attach rate ranges from single digits up to 20-25%
- Historical WiSA customer with TX in the TV averages one speaker per TV sold
- Industry external audio attach rate is ~25%

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WiSA and Platin Audio

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