

# Next Generation Smart Speaker Reference Product Design

High Performance Microphone Array // Video Camera // Smart Optional Features

## Experience

Flex has over \$1 Billion in revenue with world class audio brands, across a variety of products.

## Expertise

With a global footprint in audio design, manufacturing and logistics, Flex has the scale and expertise to provide the audio solutions customers need.

## Benefits

The Flex audio reference product platform allows customers to accelerate time to market, reduce upfront investments costs, maximize ROI, and future-proof product roadmaps.



## Intelligent Assistant Support

- » Designed for Amazon Alexa™, pending Amazon's approval
- » Designed for Google Assistant™, pending Google's approval

## Far-Field Voice

- » 6 digital MEMs microphones
- » Wake word, barge-in, ducking, beamforming

## User-Friendly

- » Touch control
- » LED status indicators
- » Voice

## Music Your Way

- » Stream over WiFi or Bluetooth®
- » Multi-room capable
- » Stereo capable
- » HD sound

## Smart Options

- » NFC for easy pairing & control
- » Video streaming or gesture control
- » Environmental sensors
- » Smart home support
- » Battery powered for portability

The market for smart speakers is experiencing exponential growth and will continue to do so. Flex's next generation Smart Speaker reference product platform allows customers to accelerate time to market and revenue and reduces upfront investment costs.

To start capturing your share of this exciting market opportunity, contact your Flex business development representative today to learn more about our next generation Smart Speaker platform. Discover how this and our other audio reference product platforms can enable you to address your customers' needs.

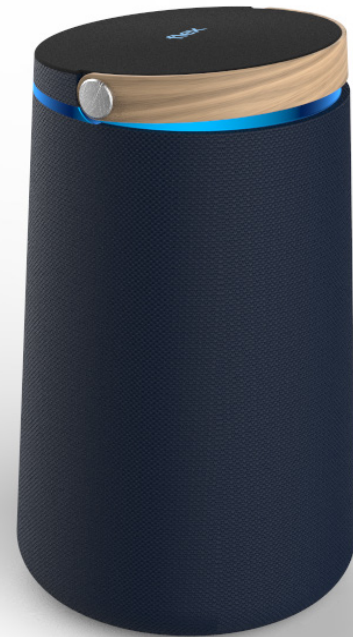
## Product Options

The platform enables customers to launch multiple smart speaker products. Options to the base model include:

- » NFC for easy pairing and control
- » Camera to support video streaming and gesture
- » Smart home capability via Zigbee™ 802.15.4
- » Environmental sensors (e.g. ambient light, temperature, humidity, VOC)
- » Battery powered for portability
- » or a combination of features listed above



Touch UI & Microphone Array



Smart Speaker with Camera covered

## Technical Specifications

### Connectivity

- » WiFi 802.11 A/B/G/N, MIMO
- » BT 4.2, A2DP + AVRCP + HSP + HFP
- » NFC pairing (Android™ Phones)
- » Stereo pair capable
- » Multi-room capable
- » Zigbee 802.15.4 option

### User Interfaces

- » Voice
- » Top-side cap touch surface
- » LED lighting for status
- » Buttons
- » Camera w/ gesture support

### Mechanical

- » 7"H x 6"W, 2lb

### Voice Assistant Support Built-In (WiFi Version)

- » Designed for Google Assistant™, pending Google's approval
- » Designed for Amazon Alexa™, pending Amazon's approval

### Audio Formats

- » HE-AAC, LC-AAC, MP3, Vorbis, WAV,
- » Opus, FLAC, etc.

### Power & I/O

- » USB-C, DC input

### Environmental Sensors

- » Ambient light, temperature, humidity,
- » VOC options

### Transducer

- » Full range speaker
- » Passive Radiators
- » Range: 80 - 85 dB

### Partners

- » DSP Concepts TalkTo™ Voice Front End
- » Amlogic processors
- » Waves MaxxAudio (optional)
- » aptX for Stereo HD (Bluetooth)