

# Smart Wireless Headphone Reference Product Designs

Industry First WiFi + Bluetooth® // Multi-UI // Active Noise Cancellation

## 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.



## Easy Setup

- » WiFi, Bluetooth, NFC

## User-Friendly

- » Touch
- » Buttons
- » LED status indicators
- » Voice (WiFi + BT version)

## All-Day Wear

- » Lightweight
- » Long battery life
- » Comfortable over-the-ear design

## Quiet

- » Active noise cancellation using dual microphones
- » Passive noise cancellation

## Voice Assistant Support

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

## Music Your Way

- » Stream over WiFi + BT
- » Stereo HD

The market for wireless headphones is experiencing exponential growth and will continue to do so. Flex's next generation Smart Wireless Headphone 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 Wireless Headphone 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 wireless headphones products. Options to either base model (WiFi + BT or BT only) include:

- » Active noise cancellation for optimizing the sound experience
- » Touch to enhance the user interface
- » NFC for easy pairing and control
- » or a combination of features listed above

## Technical Specifications

### Connectivity

- » Digital & Analog audio streaming
- » WiFi 802.11 A/B/G/N with 2 antennas with diversity switching
- » BT 4.2.5 A2DP + AVRCP + HSP + HFP
- » NFC pairing (Android™ Phones)

### User Interface

- » Touch (right ear) for music & call control
- » Voice (WiFi + BT version)
- » Buttons

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

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

### Noise Cancellation

- » Digital hybrid ANC (dual mics)
- » Passive noise attenuation: > 12dB (500-1000Hz), >20dB (1k-10kHz)
- » Active noise attenuation: > 20dB (500-1000Hz)
- » Qualcomm® cVc™ (dual microphone, BT - only version)



Smart Wireless Headphones

### Receiver

- » Speaker: 40mm diameter
- » SPL: 110db ± 3dB @ 1kHz / 1mW
- » Impedance: 32Ω ± 10% @1kHz
- » Frequency Response: 5Hz ~ 30KHz

### Power

- » Up to 30 hours play time (BT-only version)
- » Up to 16 hours play time (WiFi)
- » Charging & Data: USB-C
- » Audio Jack (3.5mm)

### Mechanical

- » Over-the-ear
- » 8"H x 7"W x 3.25"D
- » 9.5 ounces (BT - only), 12.9 oz (WiFi + BT version)

### Partners

- » Qualcomm® aptX™ for Stereo HD (BT - only version)
- » Amlogic™ A11x family