

TrueWireless™ Stereo Plus Earbuds Reference Product Design

Heart Rate Monitoring // Multi-UI // Lightweight

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.

Seamless Usability

- » Voice and buttons for user interface
- » Voice assistant and phone call support, via phone
- » Automatic detection when earbuds are being worn

Health Monitoring

- » Automatic Heart Rate Monitoring when earbuds are being worn

All Day Wear

- » Lightweight
- » 5 hours of battery life
- » Rechargeable via charging case with 2 full charge cycles



Intelligently Architected

- » HD Sound
- » Made to support future popular features

Quiet

- » Hypoallergenic and conformable ear tips for passive noise cancellation

Free to Move

- » No cords
- » Stream over Bluetooth® up to 30 ft

The market for the wireless earbuds is experiencing exponential growth and will continue to do so. Companies continue to enter this market to capitalize on this enormous opportunity. Flex's TrueWireless Stereo Plus Earbuds 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 the TrueWireless Stereo Plus Earbuds 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 offer true wireless earbuds with different features. Options to the base model include:

- » PPG technology for heart rate monitoring
- » Touch for easy control
- » Active noise cancellation for optimizing sound experience
- » MFI
- » or a combination of features listed above



Earbuds with Charging Case

Technical Specifications

True Wireless Stereo® / True Wireless Stereo Plus® enabled

Connectivity

- » BT 5.0, A2DP + AVRCP + HSP + HFP
- » MFI optional

Power

- » Play time: Up to 5 hours
- » Charging case with USB-C
- » Stores 2 full charge cycles

Receiver

- » Dynamic speaker: 6.0mm in diameter
- » SPL: 102dB \pm 3dB @ 1kHz/1mW
- » Impedance: 16 Ω \pm 15% @1kHz
- » Frequency Response: 20Hz ~ 20KHz

User interface

- » Touch for music and call control
- » Microphone for voice to phone
- » Buttons: power + multi-function

Noise Cancellation

- » cVc (dual microphone)
- » Two microphones per bud (ANC option)
- » Passive noise attenuation: > 5dB (500-1000Hz), >10dB (1k-10kHz)

Mechanical

- » Earbuds: 30mmL x 25mmW x 26mmH / 8g each
- » Charging case: 77mmL x 50mmW x 41mmH

Partners

- » aptX for Stereo HD
- » Valencell for optical heart rate & fitness