

March 2020

Qualcomm

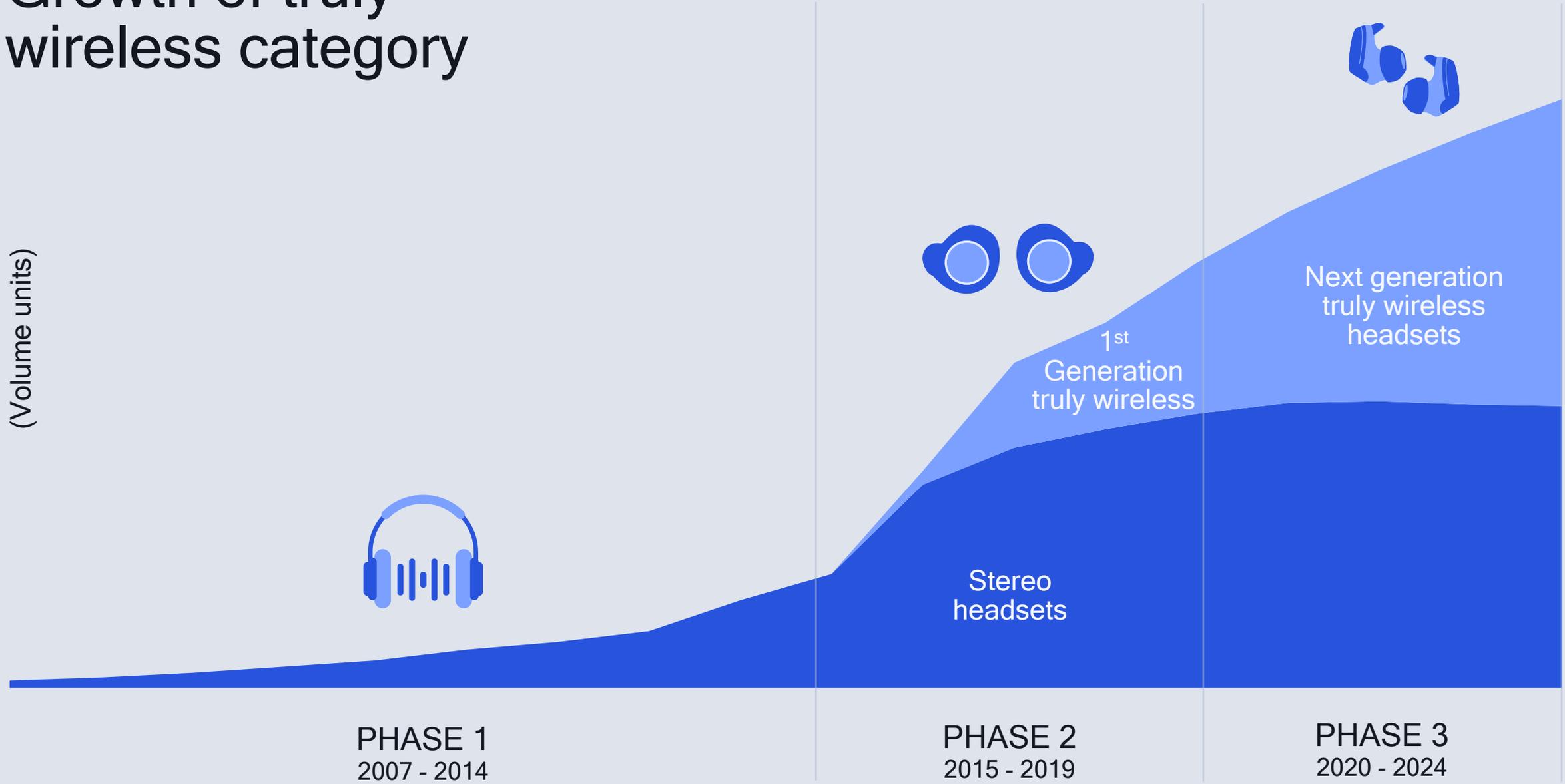
# Introducing our next generation Bluetooth Audio SoCs

James Chapman, VP and GM, Voice, Music & Wearables

Qualcomm Technologies International, Ltd. (QTIL)



# Growth of truly wireless category





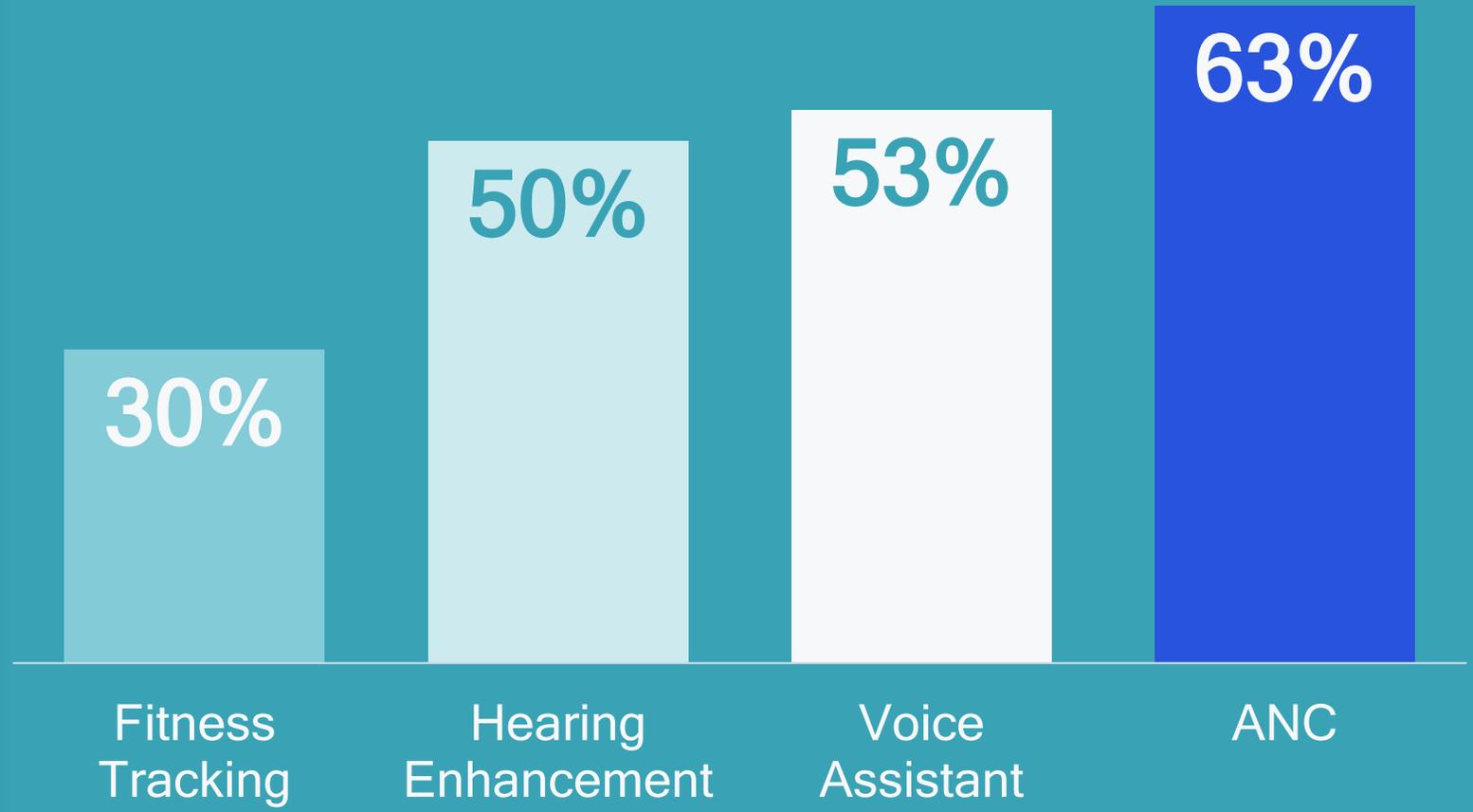
# Wireless acceptance...

# 66%

believe wireless sound is equal to or better than wired

Source: Qualcomm State of Play Report 2019  
All percentages, consumer behaviours and attitudes stated in this report are based only on the responses of the individuals who participated in our annual survey.

# ...but consumers also want richer features





 **audio-technica**<sup>®</sup>



 **mobvoi**



**Jabra**



**BANG & OLUFSEN** 



 **LIBRATONE**



**1MORE**



**JVC**



**EDIFIER**



**Melomania 1**  
TRUE WIRELESS IN-EAR MONITORS



**Klipsch**<sup>®</sup>



**MAVIN**



**cleer**<sup>®</sup>



**vivo**



**plantronics**<sup>®</sup>



  
**MASTER & DYNAMIC**



**ANKER**



  
**LOUIS VUITTON**



Products launched based on Qualcomm<sup>®</sup> QCC512x and Qualcomm<sup>®</sup> QCC302x

Qualcomm

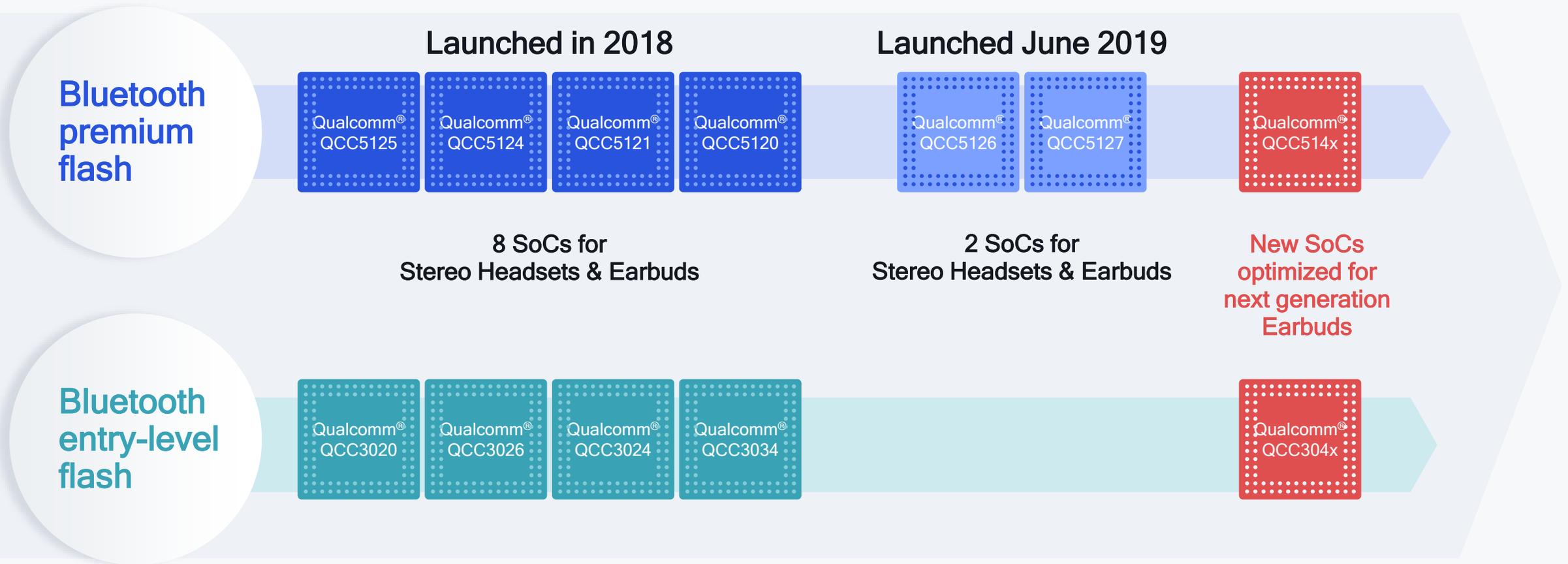
# Introducing next generation low-power Bluetooth audio SoCs

Qualcomm® QCC514x and  
Qualcomm® QCC304x



# Comprehensive audio portfolio

Qualcomm® QCC51xx and Qualcomm® QCC30xx Series





Qualcomm

Introducing  
Qualcomm®  
QCC514x  
and  
Qualcomm®  
QCC304x



Ultra-small  
form-factor



High Quality  
Audio



Ultra-low  
power



Integrated  
ANC



Robust  
Connectivity



Integrated  
Voice  
Assistants



Qualcomm  
TrueWireless™  
Mirroring

# Next generation Qualcomm TrueWireless™ Mirroring

Supported on Qualcomm® QCC514x  
and Qualcomm® QCC304x devices

Qualcomm QCC304, QCC514x and  
Qualcomm TrueWireless are products of Qualcomm Technologies, Inc.  
and/or its subsidiaries.



**Choose any earbud combination and switch between them dynamically with no interruption to the audio**

# Qualcomm® Active Noise Cancellation



Small Size



Low-power



Performance



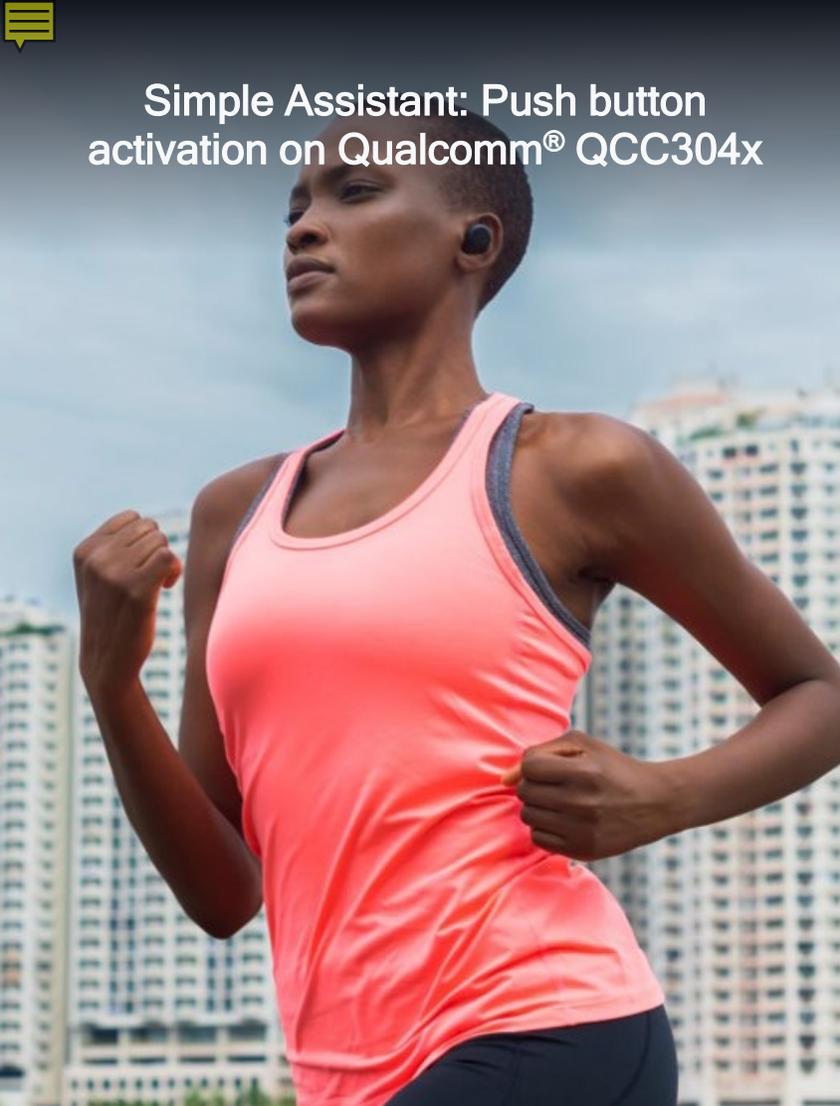
UX



Leak-through



Simple Assistant: Push button activation on Qualcomm® QCC304x



Push button voice assistant activation on Qualcomm® QCC304x



Wake word voice assistant activation on Qualcomm® QCC514x



# Integrated Voice Assistants at all tiers

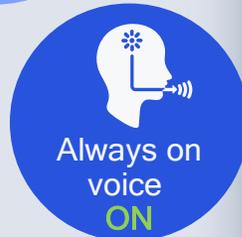


# Qualcomm® QCC514x provides improved power consumption for real world use cases

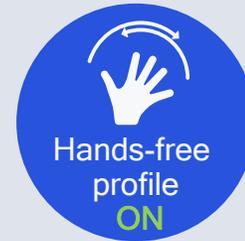
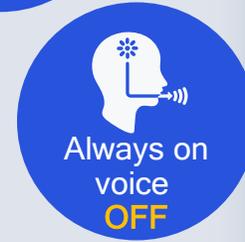
Percentages shown for the QCC514x and for the end-product from Competitor X leverage data from limited internal testing and measurement by Qualcomm Technologies International, Ltd., modelling similar like-for-like use cases.

Battery life varies significantly with settings, usage, and other factors.

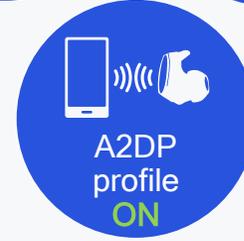
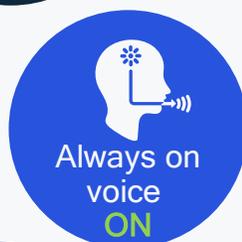
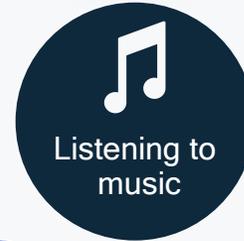
Qualcomm QCC514x and Qualcomm cVc are products of Qualcomm Technologies, Inc. and/or its subsidiaries.



*QCC514x lasts up to 86% longer than Competitor X*



*QCC514x lasts up to 26% longer than Competitor X*



*QCC514x lasts up to 22% longer than Competitor X*



# Qualcomm® aptX™ Adaptive audio

## Robust

Enhanced tolerance to RF interference

## Audio quality

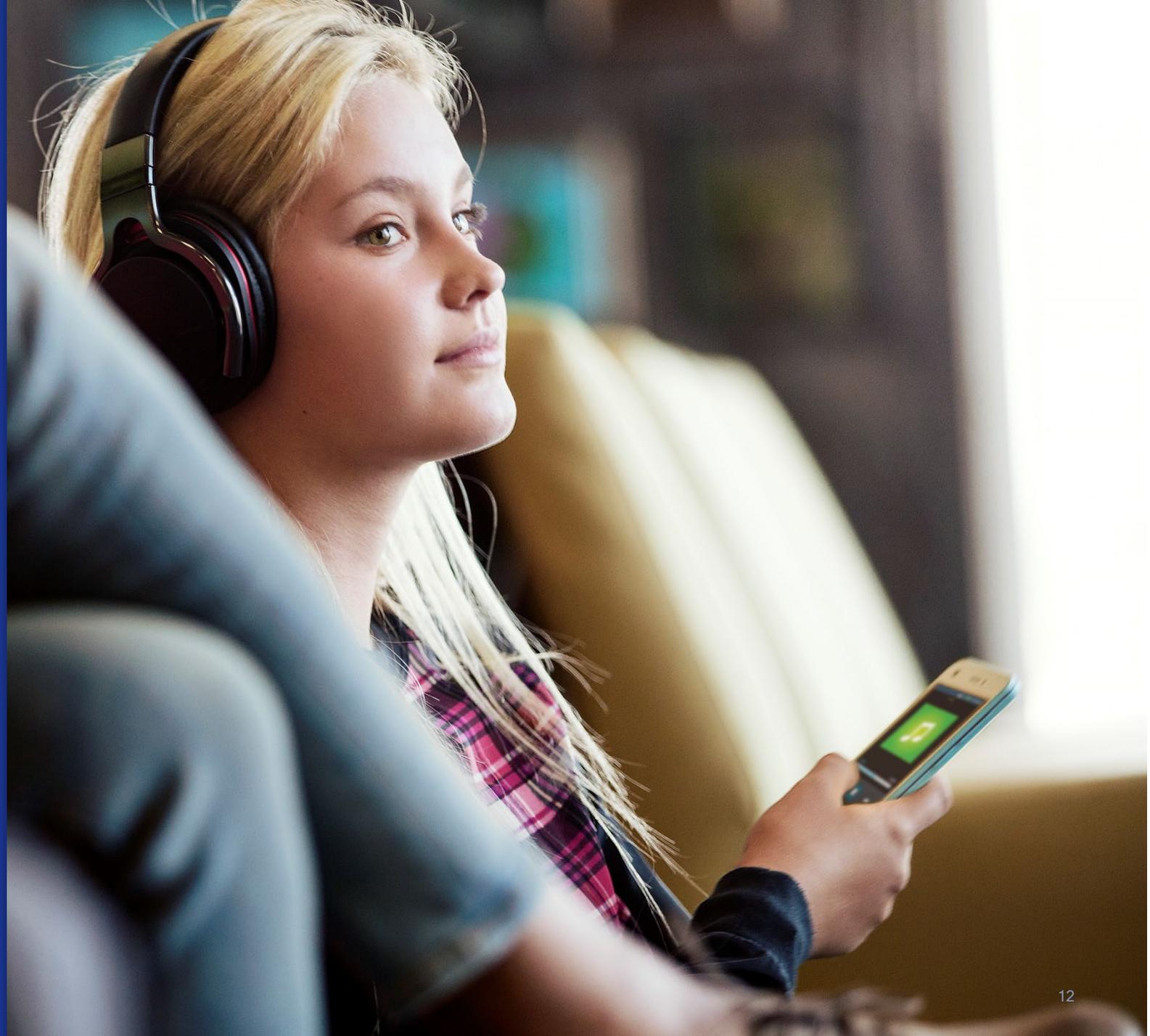
CD and high resolution

## Latency

Gaming, interactive and audio visual

## Voice

High resolution voice



## Driving the truly wireless revolution



Voice UI



ANC



All day wear\*



Seamless role swapping



Premium audio



Multi-core processing



Low-latency

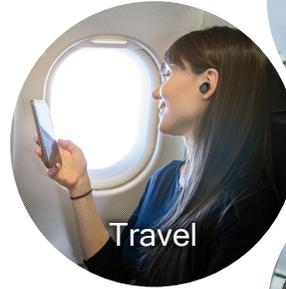


Robust connectivity



Optimized for small form factors

## For a variety of use cases



## At all tiers



Premium



Mid



Entry Level

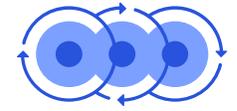
## Helping developers to innovate



Reference designs & tools



Unique & scalable software ADK



Ecosystem partnerships



Leveraging innovations from mobile

# The foundation for next generation devices



# Thank you

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