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@qualcomm

San Diego, United States

Qualcomm

The next generation of smart audio

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Agenda



Megatrends
for speakers



The next
generation of
smart audio



Our new,
purpose-built
solution



What our vision of
the future
sounds like

Speaker Market - Megatrends



Adoption of
Smart Speakers



Voice UI



Improved processing
capability and AI



Home control features



Mesh connectivity



Immersive audio

Qualcomm
legacy
of technology
leadership

Computing



Artificial intelligence



Power management



Display processing



CPU | GPU | DSP | HTA



Media processing



Audio processing

Connectivity



Low power



Integration



Wi-Fi



LTE



Bluetooth



Flexible connectivity and networks



Edge computing



Interoperability

Audio



Technology Leaders in wireless audio



>3B audio components shipped



Qualcomm[®] aptX[™]

>4B Devices enhanced with Qualcomm[®] aptX[™] audio*



Qualcomm[®] DDFA[™] Amplifier Technology
Truly premium amplification



Hundreds of audio customers globally

The next generation of smart audio



**Improved
Voice UI**



**Highly-connected
smart home**

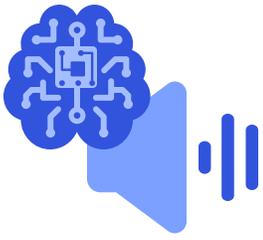


**Superior, more
immersive audio**

We've created
a new SoC that's
built from the
ground up for
Smarter Audio

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a new SoC that's
built from the
ground up for
Smarter Audio





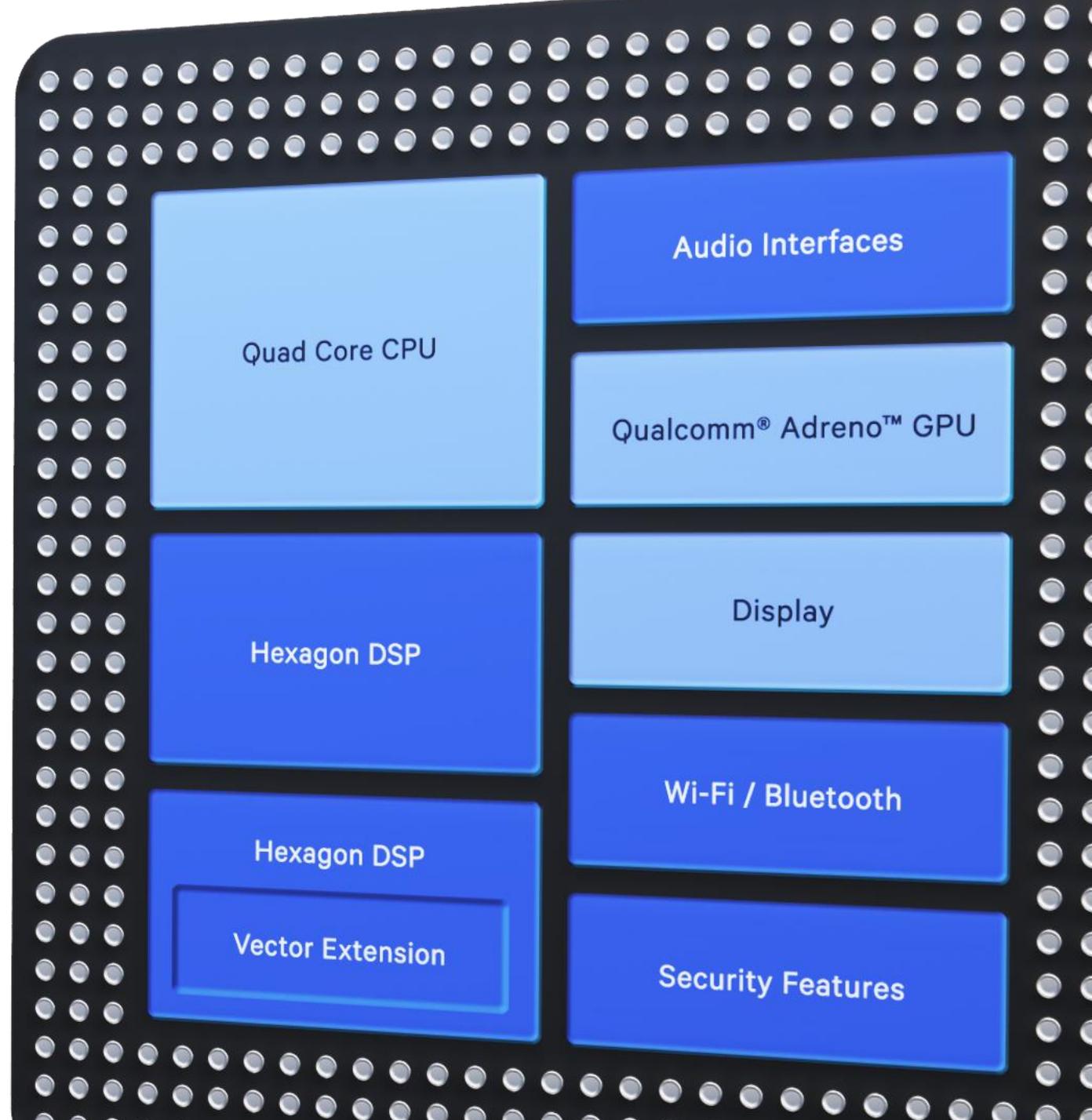
Qualcomm® QCS400 for smarter audio

High-performance

Power optimized

Tightly integrated

Enhanced with AI



With next generation voice UI and integrated smart home experiences



Local
ASR



Multi-keyword
recognition



More robust
keyword
recognition

Improving
voice response
time

With next generation voice UI and integrated smart home experiences



Local
ASR



Multi-keyword
recognition



More robust
keyword
recognition

Improving
voice response
time

In-room
and multi-room
streaming

Advanced
connectivity
options

Low latency
wireless audio
for video
and gaming

With next generation voice UI and integrated smart home experiences



Local ASR



Multi-keyword recognition



More robust keyword recognition

Improving voice response time



Extending battery life

In-room and multi-room streaming

Advanced connectivity options

Low latency wireless audio for video and gaming

Optimized for low power

Take your smart speaker virtually anywhere

Up to **25x** 
Longer standby with
voice wakeup*

Up to **14** 
days unplugged
power with **no loss**
of functionality*



And truly immersive smart audio experiences

Enhanced
voice support

And truly immersive smart audio experiences

Enhanced
voice support

Qualcomm®
aptX™
Adaptive

Low latency
streaming

And truly immersive smart audio experiences

Enhanced voice support

Qualcomm®
aptX™
Adaptive

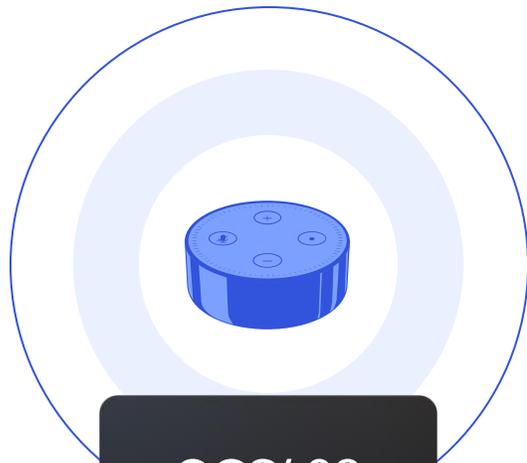
Low latency streaming

Powerful audio processing

Support for DTS

Support for Dolby

Engineered for innovation at multiple tiers



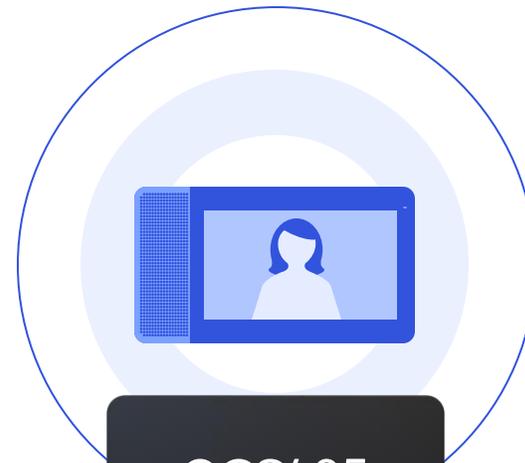
QCS403

Qualcomm



QCS404

Qualcomm



QCS405

Qualcomm



QCS407

Qualcomm

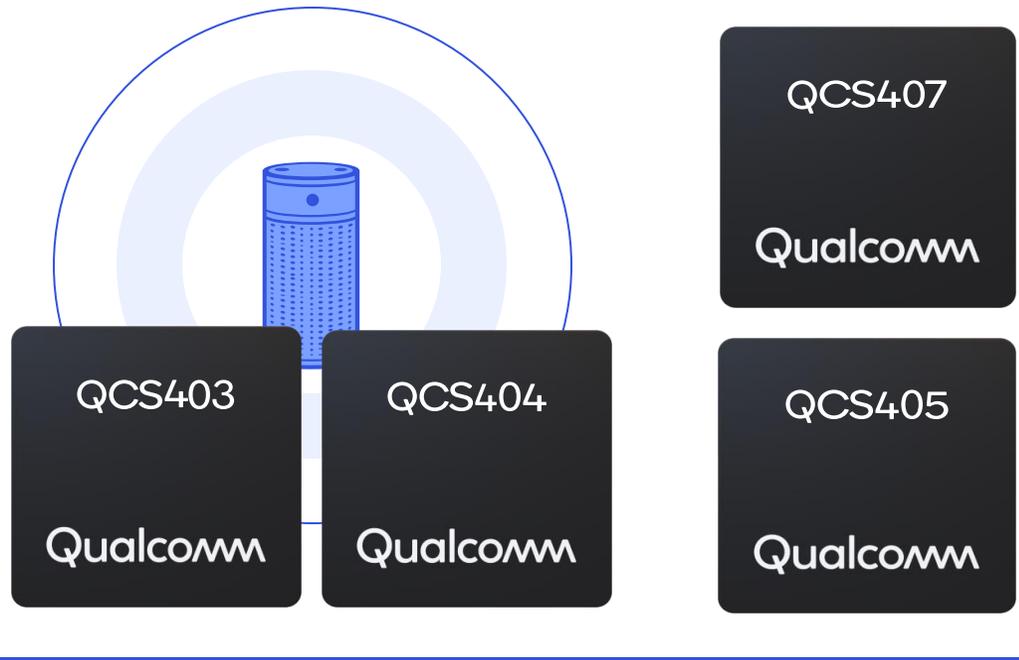
Home hubs
Smaller smart speakers
Voice assistants

Smart speakers
Entry-level soundbars
Audio-capable mesh routers

Premium smart speakers
Smart soundbars
Display-capable smart devices

Premium smart soundbars
AVRs

Available as a uniquely comprehensive solution



Audio and Software development tools

Smart speaker development kit

Extension program

Designed to help...

Reduce development time

Support customization

Improve product diversity and consumer choice

Whole home audio just got a whole lot smarter

A new age
of voice control

Superior connectivity,
virtually everywhere

Truly immersive
listening experiences



Thank you

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