

Under Embargo Until June 30, 2020, 8am PST

What You Will Hear Today



Growing Market

Hyper-segmentation

Voice, Video, Pictures, Music, Messaging, Health & Fitness, Sleep, Sports

Powerful Yet Flexible

Hybrid Architecture

Super-Fast Performance

>85% Faster

Smarter AON Co-Processor

12nm SoC

4G Low Power Modem

Choice of brands, IDs, price points, use cases

Enhanced and Personalized Experiences

Smarter AON Co-Processor

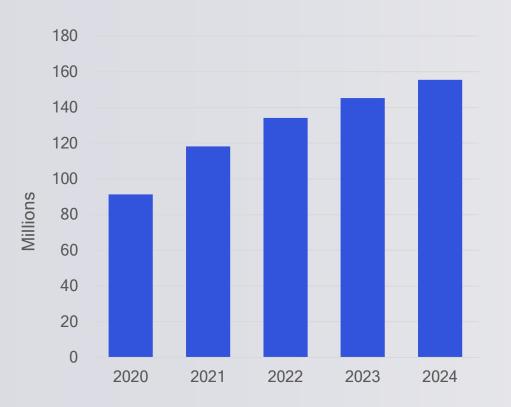
BBK Z6 Ultra

>25% Longer Battery Life

Smartwatch is a watch

Mobvoi Tic Watch Pro Next Gen

Worldwide Smartwatch Forecast, 2020-2024



Source: IDC Worldwide Quarterly Wearables Tracker, June 2020. Watch includes both Basic Watches and Smart Watches. Basic watches incorporate a microprocessor, are capable of digitally processing data, and have wireless connectivity, but do not run third-party applications. Smart watches meet all four requirements.

The Growing Value of Wearables

Forbes, June 2020

Wearables have biggest year since 2015... Health Explosion is on its way

Wareable, June 2020

Mobvoi's connected Ticwatch Pro 4G LTE takes on Apple and Samsung in the UK

Digital Trends, December 2019

Chinese Smartphone Makers Focusing on Smartwatch Opportunity

CCS Insights, June 2020

Wearables Industry: Growing Rapidly

Growing Market = Hyper-Segmenting Market

TODAY 5-7 years ago 2-3 years ago **Adult Smartwatch** Luxury Fashion Phone Companion Mass Market Sports & Fitness Flagship Kid Smartwatch Enterprise Tracker Entry Senior Smartwatch Smartwatch

Tracker

The "5-95" Rule



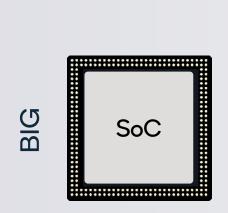
5% Interactive

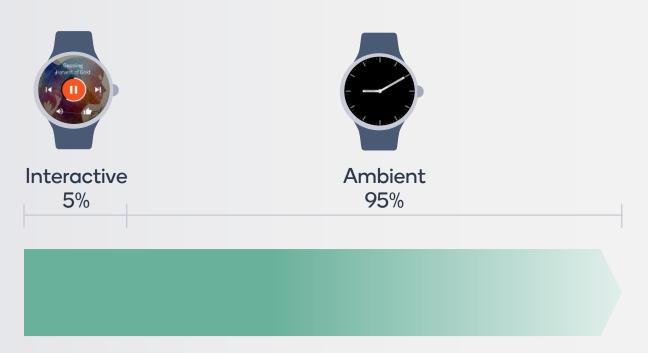


95% Ambient

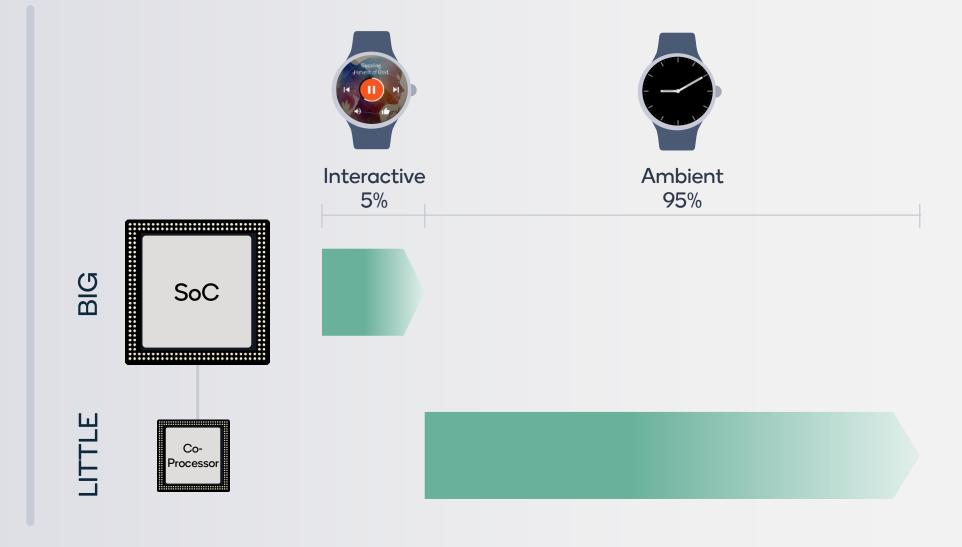
How do we use the smartwatch?

The "5-95" Rule





The "5-95" Rule



Hybrid Architecture: Powerful Yet Flexible





Introduced in 2018, Based on Hybrid Architecture





Introduced in 2018, Based on Hybrid Architecture

Smart + Sports

- Up to 12 Hours GPS
 Tracking + Heart Rate
- Up to 48 Hours smartwatch use
- 70+ sports modes
- Offline outdoor maps

Qualcomm snapdragon wear 3100 platform



Smart + Fashion

- Sleek design
- Extended battery life
- Rich ambient modes





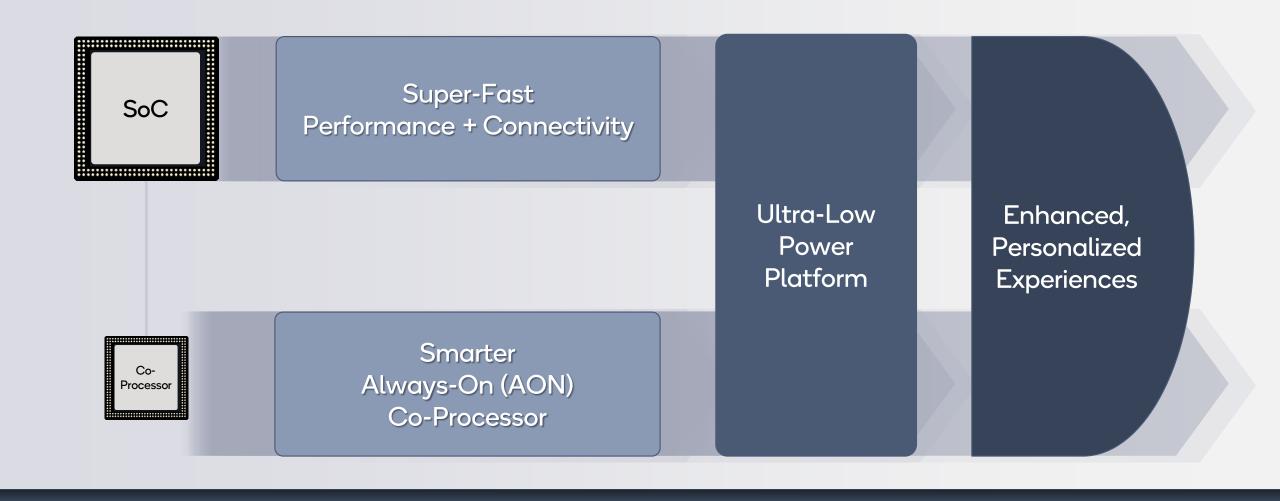
Smart + Connected

- 4G LTE
- 21 days battery in power save mode
- 3D flexible display

Qualcommus snapdragon wear 3100 platform







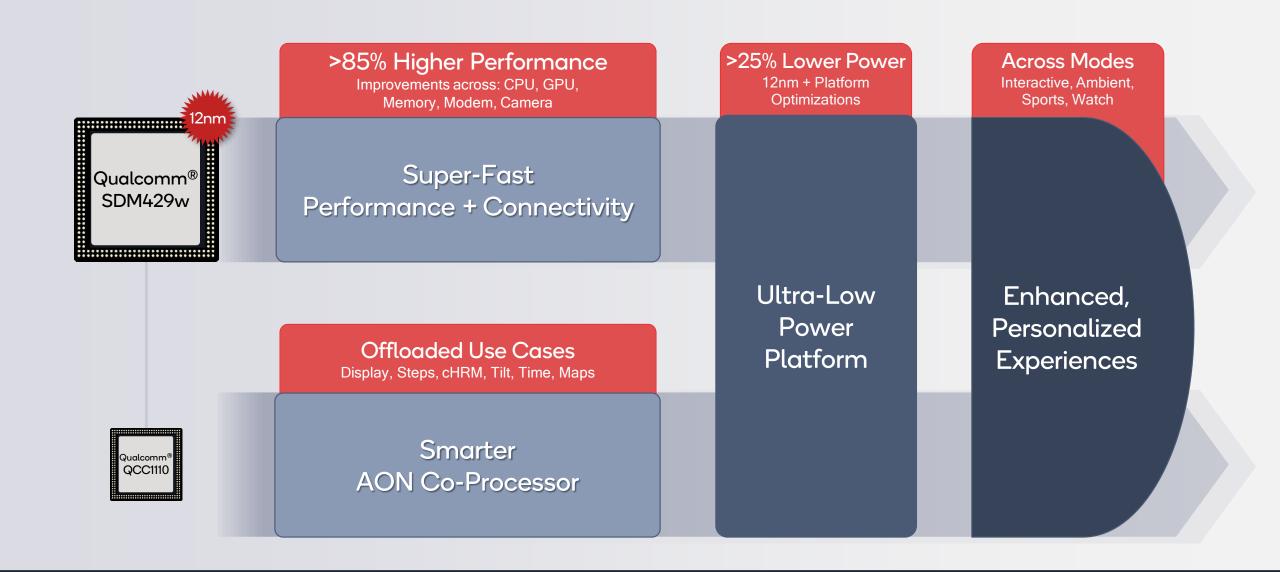
Enhancing Hybrid Architecture

Introducing the...

Qualcomm® Snapdragon Wear™ 4100+ Platform

Next generation connected smartwatch platform based on our ultra-low power hybrid architecture

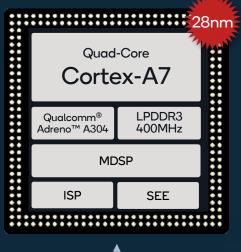




Snapdragon Wear 4100+ Value Proposition

SDW4100+: Advancing the hybrid architecture

Snapdragon Wear 3100



Significantly Faster Processor

28nm 12nm 4x A7 @ 1.1GHz 4x A53 @ 1.7GHz Adreno 304 Adreno A504 400MHz 750MHz Snapdragon Wear 4100+



Stronger Always-On (AON)
Software Interface



Cortex-M0

Memory

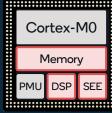
Smarter AON Co-Processor

Richer Ambient Mode (16 colors 64K colors)

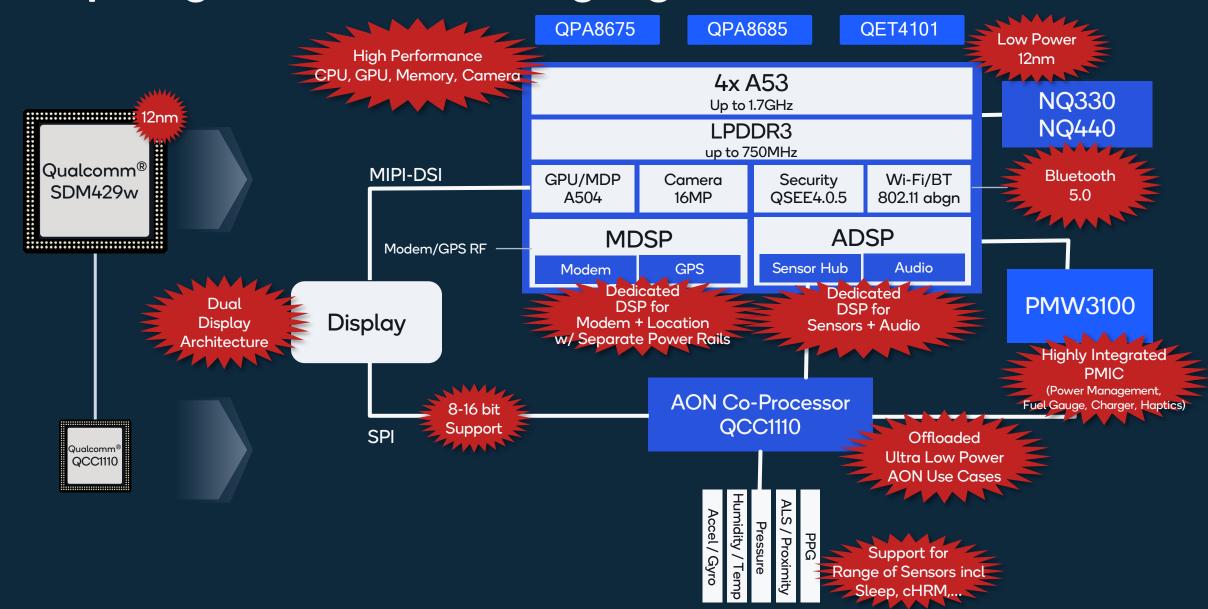
More Capable Watch Mode (Steps, cHRM, Alarms, Haptics, Tilt-to-Wake)

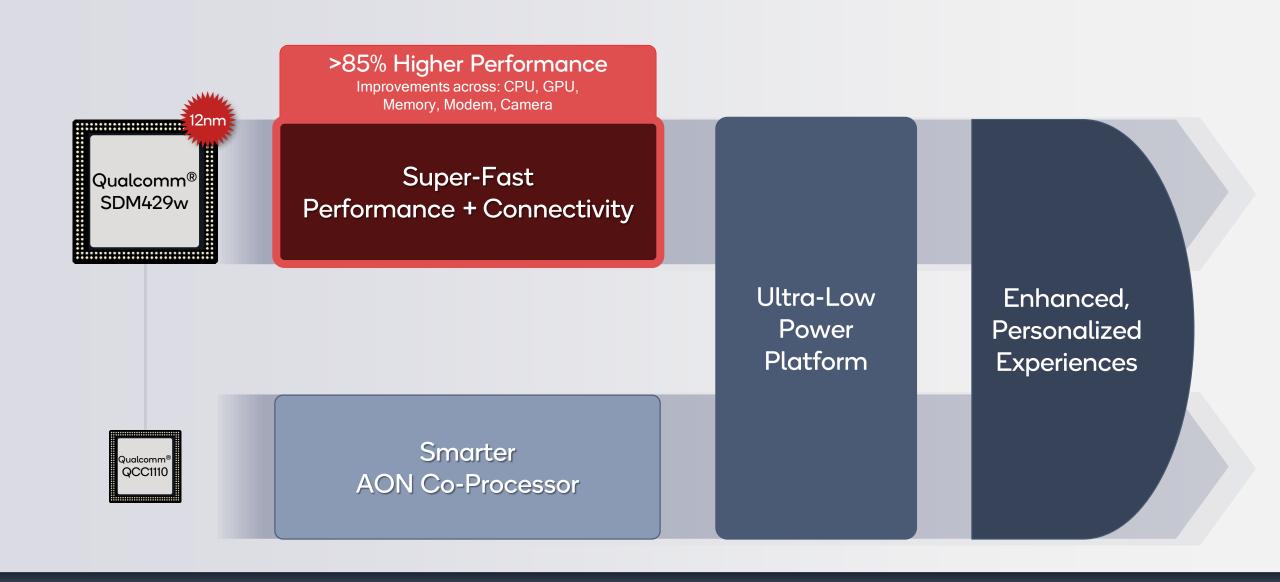


Enhanced QCC1110



Snapdragon Wear 4100+ Highlights



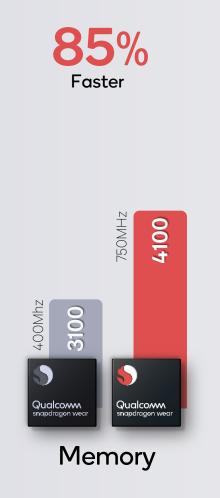


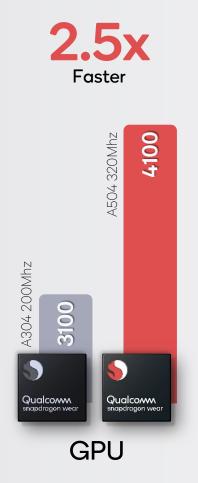
Snapdragon Wear 4100+ Value Proposition

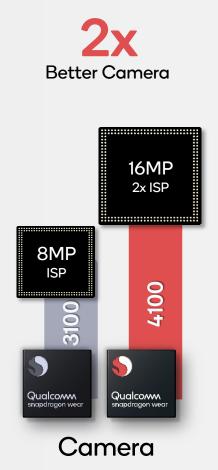
Super Fast Performance

More fluid and feature-rich experiences



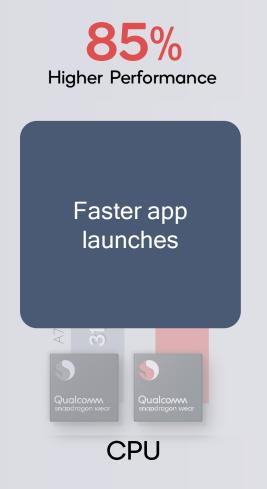


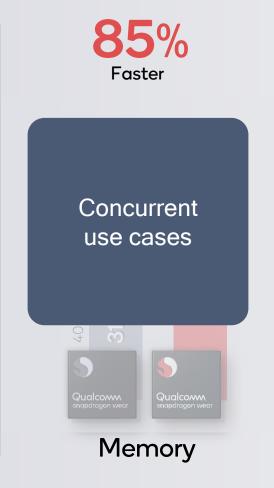


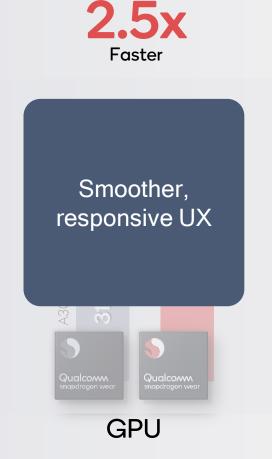


Super Fast Performance

More fluid and feature-rich experiences









Plus Leading Edge 4G Modem

Take Your Experiences With You



- Dedicated Modem DSP and power rails
- Right-sized modem





New Low Power Features

- 12nm
- Power optimizations for VoLTE, music, voice assistant
- eDRX to manage active and idle cycles



Performance Flexibility

- Support for Cat 4, 3, 1
- Single / Dual antenna for better range



- eSIM support
- Easy onboarding
- Simplified operator certs / GTM



Music Streaming On-The-Run



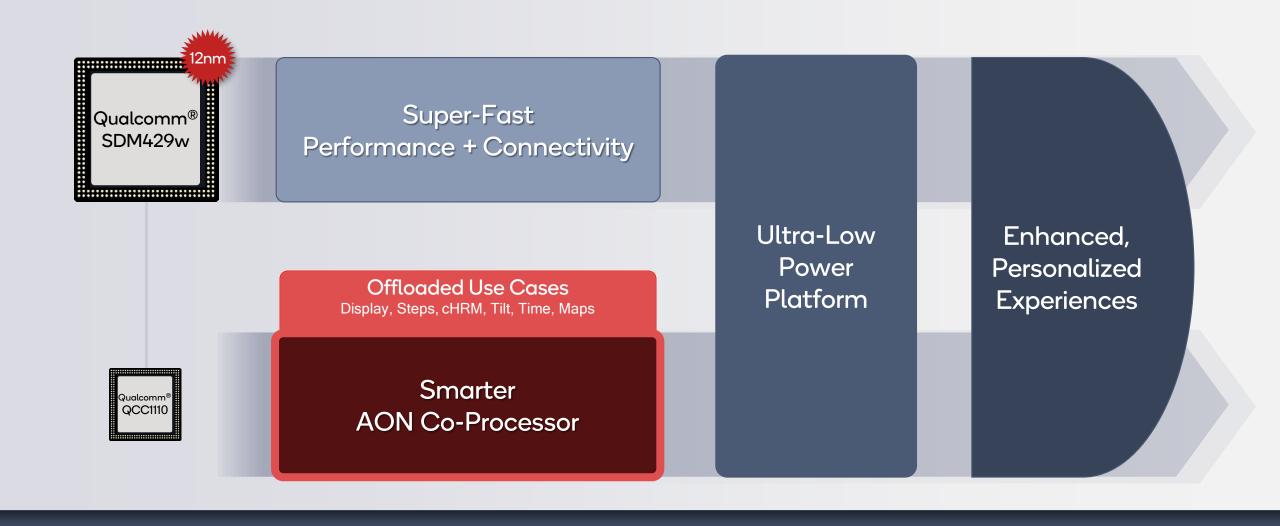
Voice Assistant On Your Wrist



Real-time Maps On-The-Go



Phone-Free VoLTE & Messaging

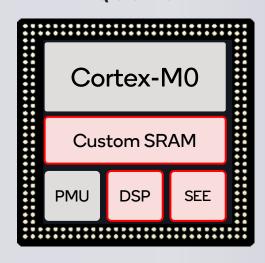


Snapdragon Wear 4100+ Value Proposition

Always On Co-Processor

Designed to Offload AON Use Cases

Qualcomm QCC1110



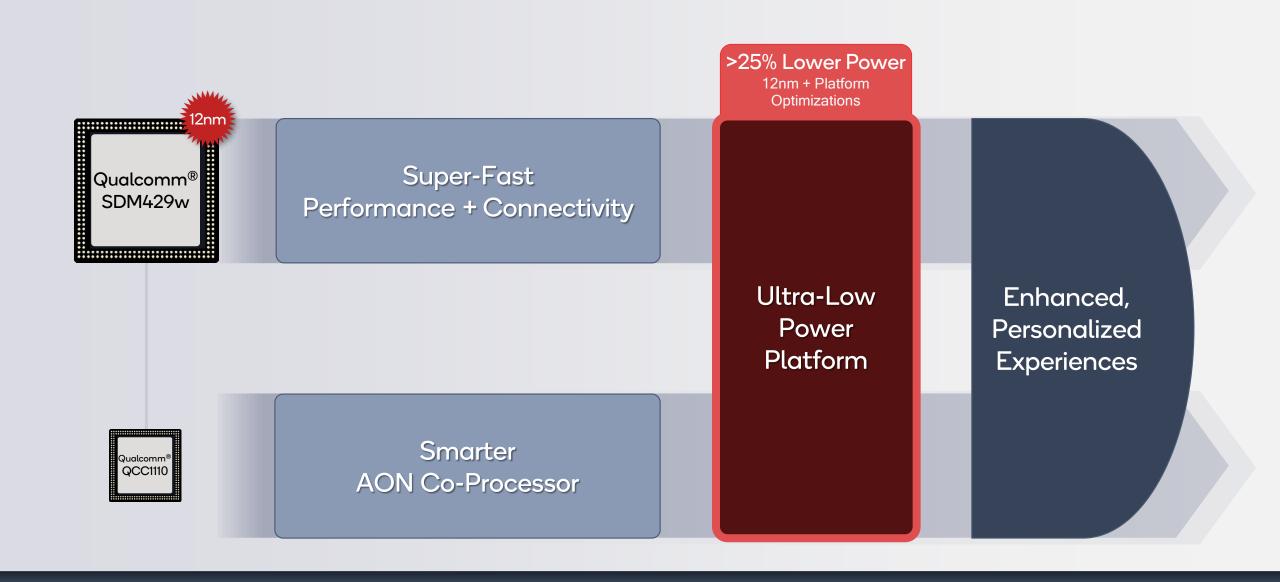


What is it?

- Tiny (5.2mm x 4mm)
- Ultra low power
- Integrates M0, PMU, custom designed SRAM
- Smart memory and performance partitioning
- Runs Sensor Execution Environment (SEE)
- Runs highly efficient event-driven RTOS

What does it make possible?

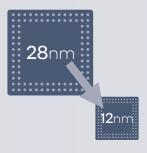
- Support for range of sensors (Sleep, cHRM, ...)
- Support for extended functionality in Watch mode (Steps, cHRM, Tilt, Time, Maps,...)
- Supports dual display architecture (8-16 bit)
- Leverages Android open tool-chain
- Extensible over time



Snapdragon Wear 4100+ Value Proposition

Lower Power

Platform power reductions SDW4100+ vs SDW3100



New Process Node

- Lower active power
- Higher energy efficiency



Low Power Platform Architecture

- Dual Dedicated DSPs
 - Modem + GNSS
 - Sensors + Audio
- Dynamic Clock and Voltage scaling



GPS Enhancements

- Qualcomm[®] Sensor
 Assisted Positioning for
 Wearables 2.0
- Support for: GPS, BDS, GLONASS, Galileo
- Low power tracking

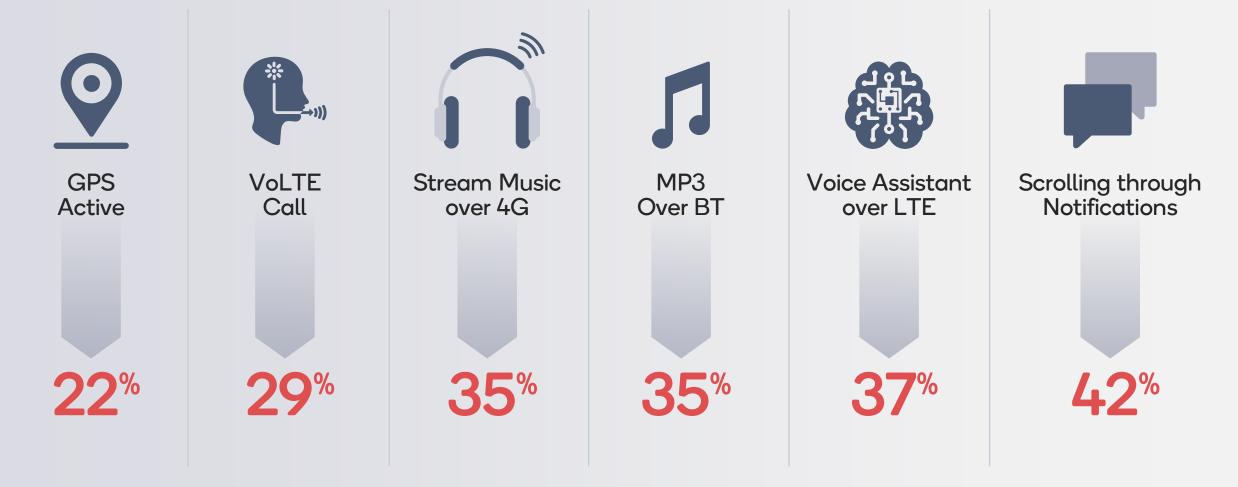


Enhanced BT Architecture

- Bluetooth 5.0
- A2DP Streaming
- HFP voice

Lower Power

Platform power reductions SDW4100+ vs SDW3100



Extended battery life

Maximizing on-wrist time across various segments

Fashion Watch

25% Longer Battery Life

> 1.2" Display 360 mAH Battery

Sportswatch

18 Hours Sports Mode

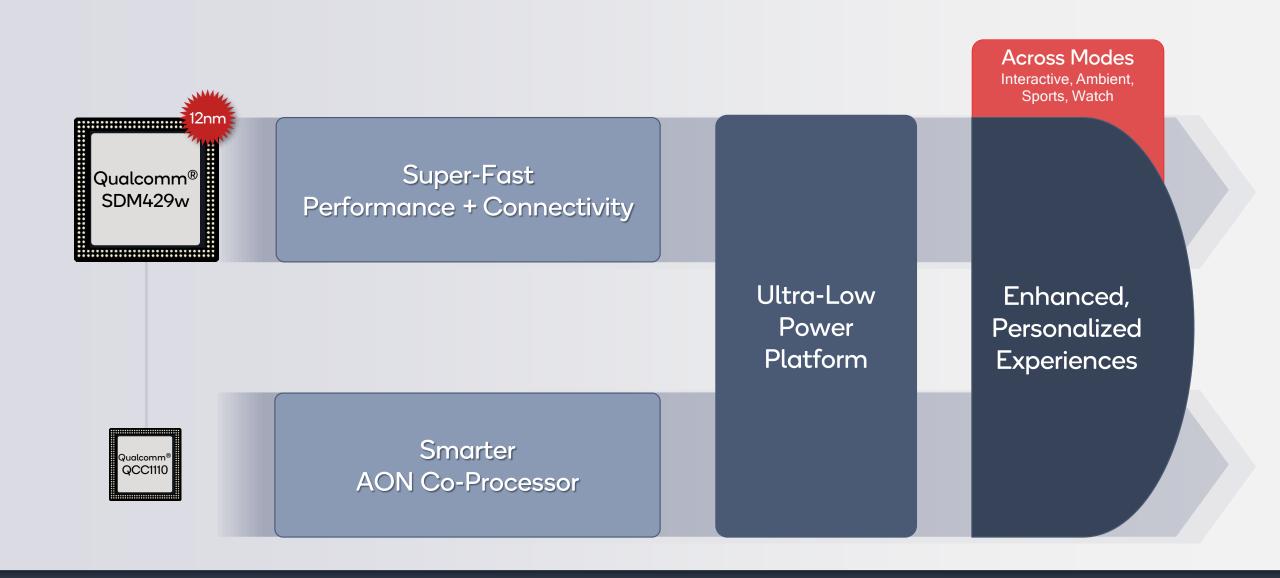
> 1.4" Display 450 mAH Battery

Connected Smartwatch



1.3" Display 420 mAH Battery





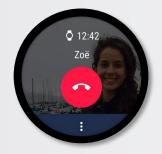
Snapdragon Wear 4100+ Value Proposition





Across Modes
Interactive, Ambient,
Sports, Watch

Enhanced, Personalized Experiences



...when you are interacting with the watch



...when you are in ambient mode



...when you go for a run



...when you forget your charger

Immersive Interactive Experience

Choice of Watch Faces, Apps, Services Video Assistant SDW4100+ Music Messaging Music Messaging SDW3100 Phone **Fitness** 14398 Phone Fitness Navigation **Payments Navigation Payments** Productivity Camera

Richer Ambient Mode

Fashion Meets Smart

SDW3100



- 16 colors (4 bit)
- Smooth second hand
- Live complications
- Adaptive brightness and touch

SDW4100+



- Up to 64K colors (16 bit) for crisper image rendering - New
- Number kerning New
- Support for Sleep, cHRM New
- Smooth second hand
- Live complications
- Adaptive brightness and touch

Powerful Sports Mode

Sports Meets Smart

SDW3100

SDW4100+



- 16 colors (4 bit)
- Sensors offload



- Up to 64K colors (16 bit) for crisper image rendering - New
- Number kerning New
- Sensors and Maps offload New

Enhanced Watch Mode

Week-Long Battery Life

SDW3100



- 16 colors (4 bit)
- Time & Date

SDW4100+



- Up to 64K colors (16 bit) for crisper image rendering - New
- Number kerning New
- Steps and Heart Rate New
- Battery Indicator New
- Alarms, Reminders, Haptics New
- Time & Date

Portfolio of Wearable Platforms



Qualcomm Snapdragon Wear is a product of Qualcomm Technologies, Inc.

Announcing First Customers







1st Wear OS by Google Smartwatch based on SDW4100



Summary



Qualcoxxx snapdragon wear

4100+ platform

Wearables growing and segmenting

- Require a powerful and flexible architecture
- Hybrid = best of experience and battery life, introduced w/SDW3100
- Suunto 7 represents what is possible (Sports + Smarts)

Advancing with SDW4100+ announcement today

- Super-Fast Performance and Connectivity (>85% perf improvement)
- Smarter AON Co-Processor (From 16 to 64K colors)
- Ultra-Low Power Platform (>25% longer battery life)

Enabling Enhanced, Personalized Experiences

- Immersive experience when you interact
- Richer experience when you are in ambient
- Powerful experience when you go for a run
- Enhanced experience when you loose your charger

First products coming soon

- BBK = Flagship Kid Watch
- Mobvoi = First Wear OS by Google smartwatch

Qualcomm

Thank you

Follow us on: **f y** in **©**

For more information, visit us at:

www.qualcomm.com & www.qualcomm.com/blog

Nothing in these materials is an offer to sell any of the components or devices referenced herein.

©2018-2020 Qualcomm Technologies, Inc. and/or its affiliated companies. All Rights Reserved.

Qualcomm and Snapdragon Wear are trademarks of Qualcomm Incorporated, registered in the United States and other countries. Other products and brand names may be trademarks or registered trademarks of their respective owners.

References in this presentation to "Qualcomm" may mean Qualcomm Incorporated, Qualcomm Technologies, Inc., and/or other subsidiaries or business units within the Qualcomm corporate structure, as applicable. Qualcomm Incorporated includes Qualcomm's licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a wholly-owned subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm's engineering, research and development functions, and substantially all of its product and services businesses, including its semiconductor business, QCT.