Snapdragon® Tech Summit

Introduction

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Qualcomm Technologies, Inc.
Smartphones exceed in capabilities
1.4 Trillion
pictures taken in 2020

2 Billion
Mobile devices enabled by AI

Source: IDC Mobile Phone Tracker 1Q2020
For the premium experiences you deserve

Qualcomm Snapdragon is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.
Connectivity

Qualcomm® Snapdragon™ X60 Modem-RF System

3rd Gen mmWave, Sub6
5G Carrier Aggregation across FDD, TDD*
7.5 Gbps DL, 3 Gbps UL

Qualcomm® FastConnect™ 6900 System

Wi-Fi 6 and Wi-Fi 6E (6 GHz)
4K QAM, 160MHz channels, 4-stream DBS
Bluetooth 5.2, dual antennas, premium audio

* Across all key 5G sub-6 GHz bands and combinations using frequency division duplex (FDD) and time division duplex (TDD)
QualcommFastConnect, Qualcomm Spectra, Qualcomm Adreno, Qualcomm Hexagon, Qualcomm Sensing Hub, Qualcomm Processor Security and QualcommKryo are products of Qualcomm Technologies, Inc. and/or its subsidiaries.
Qualcomm Spectra™ 580 CV-ISP
Professional quality camera

Triple ISP

Staggered HDR Sensors

2.7 Gigapixels/sec

35% speed increase

Compared to previous generation
Qualcomm Adreno 660

35%
Faster graphics rendering

20%
More power efficient

Display enhancements
OLED display uniformity
Picture quality improvements
Demura & sub-pixel Rendering

Based on internal testing for performance and power efficiency
Compared to previous generation
Graphics sustained performance

Manhattan 3.0 Sustained @ Peak perf

Based on internal testing for performance and power efficiency
Qualcomm® Hexagon™ 780 Processor

Fused AI accelerators
New

16x Dedicated Memory

Up to 3x Performance per watt

Up to 1000x Hand off time

2x Tensor Accelerator Compute capacity

Compared to previous generation
2nd Generation Qualcomm® Sensing Hub

Connectivity streams
Multiple data streams from 5G, WiFi, BT, Location

Dedicated AI processor
Low power AI cases

Compared to previous generation
Qualcomm® Kryo™ 680 CPU

25%
Performance uplift

25%
More power efficient

Compared to previous generation
New architecture
AnTuTu sustained performance

Antutu v8 sustained performance

Based on internal testing for performance and power efficiency
6th Gen Qualcomm® AI Engine

26 TOPS
Fastest & biggest leap in AI performance

Qualcomm AI Engine direct for faster AI software performance
Snapdragon with Hypervisor

Instantly switch between isolated OSes
Provide an isolated OS for each app
Hypervisor
Instant switch between isolated OSes

Work profile
Face Scan

Personal profile
Face Scan

Misc OS
Hypervisor
Hypervisor
An isolated OS for each app
Security
Preserving the future of photography
How do you know if a photo is authentic?
New security standard for capturing photos

Cryptographic-seal
For pixels, date, time, location, and depth map
Collaborative technology demonstration at live event on December 8th
Snapdragon is world’s first CAI compliant smartphone camera

Content Authenticity Initiative
Thank you

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