QUALCOMM® SNAPDRAGON™ WEAR 1200 WEARABLES PROCESSOR

The Wearables Processor for Targeted Purpose Devices

The Snapdragon Wear 1200 is designed for targeted purpose wearables:

+ Compact 79mm² size including MDM, PMIC and WTR, in 28nm LP
+ Integrated Cat-M1 /NB1 / E-GPRS multi-mode modem with Power Save Mode (PSM) and extended Discontinuous Receive (eDRX)
+ Integrated voice support for VoLTE
+ Integrated Qualcomm® Location with multiple global satellite systems
+ ARM Cortex A7 CPU
+ Pre-integrated support for Qualcomm® 11ac Wi-Fi and Bluetooth 4.2/Bluetooth Low Energy
+ Software support for Linux and RTOS
+ ODM designs available

To learn more visit:
snapdragon.com or **qualcomm.com/wearables**

USER EXPERIENCES

45% Smaller*

Compact package allows for highly optimized wearable designs

Low Power

Low power design allows up to 10-days of LTE standby† for long battery life

Always connected

Global multi-mode Cat-M1 / NB1 / E-GPRS modem with integrated GNSS

Smart Sensing

Advanced sensor support allowing for rich algorithms and greater accuracy

Location and Security

Combining robust hardware security and Qualcomm Location with support for multiple global satellite systems

Snapdragon Wear Platform

Designed from the ground-up to meet power, size, cost, and connectivity requirements of targeted wearables. Multiple ODM partners help accelerate development

Qualcomm® snapdragon™

* As compared to Qualcomm QSC6270.
† When paired with a typical, 350 mAh battery and using eDRX.

Snapdragon Wear 1200 is designed to provide an ultra-low power LTE Cat M1 and NB1 chipset for targeted purpose wearables such as kid, pet, elderly, and fitness trackers

FEATURES & SPECIFICATIONS

CPU

+ Integrated Applications Processor with ARM Cortex A7 at 1.3 GHZ

Memory

+ Support for discreet or MCP NAND and LPDDR2

Display

+ Support via SPI for simple UI and displays

Cost-Optimized

+ integrated features designed to reduce Bill-of-Materials (BOM) and NRE for customers including an ARM Cortex A7 eliminating the need for MCUs, GNSS for location services, and scalable software re-use across chipset platform

Power Management

+ Ultra-low Rock Bottom Sleep Current (RBSC) for extended standby
+ Power Save Mode (PSM)
+ Extended Discontinuous Receive (eDRX)

Charging

+ Companion charging chipset

Modem

+ Global multi-mode supporting Cat-M1 / NB1 / E-GPRS. Supports LTE FDD and TDD for Cat-M1 and E-GRPS and FDD only for Cat-NB1
+ Up to 300 kbps downlink and 350 kbps uplink for Cat-M1
+ 10 kbps download and 60 kbps upload speeds for Cat-NB1
+ Integrated voice support for VoLTE
+ Proven and trusted Qualcomm Technologies modem already deployed across hundreds of millions of devices worldwide

Scalable

+ Broad software re-use to reduce design complexity, BOM, and NRE
+ Scalability to add voice, Wi-Fi, and Bluetooth capabilities

Connectivity

+ Pre-integrated support for Qualcomm 11ac Wi-Fi and Bluetooth 4.2 / Bluetooth Low Energy

Location

+ GPS, GLONASS, Galileo, and BeiDou constellations supported
+ Accurate Wi-Fi and cellular positioning, optimized for Cat-M1/NB1
+ Low power Geo-Fencing

Qualcomm Cloud Based Location Services

+ 7 day GNSS predicted orbits service
+ Qualcomm end-to-end Global Terrestrial Positioning (GTP) Wi-Fi and cellular service

Security

+ Qualcomm Trusted Execution Environment
+ Wireless protocol security
+ Hardware based security with Secure Boot/storage/debug, hardware crypto engine, hardware random number generator, and Trustzone

Qualcomm snapdragon