



Open-Q™ 2100 Development Kit

Based on the Qualcomm® Snapdragon™ Wear 2100 processor

**START DESIGNING
YOUR EMBEDDED
AND IOT DEVICES
TODAY**

Intrinsyc's Open-Q™ 2100 Development Kit is an open frame development kit using our ultra-compact, production ready Open-Q 2100 SOM that is based on the Snapdragon™ Wear 2100 (APQ8009W) processor which is 30% smaller and 25% more power efficient than the previous generation Snapdragon™ wearable processor. Our wearables development kit is an ideal starting point for your product development; ultra-compact or wearable devices, embedded and IoT edge devices, voice recognition and smart speakers, etc.

Technical Information

Processor	Snapdragon™ Wear 2100 (APQ8009W) optimized for wearables Quad-Core ARM Cortex A7 1.094GHz Qualcomm® Adreno™ 304 GPU
Memory/Storage	512MB RAM 4GB Flash
Wireless/GPS	Pre-Certified Wi-Fi 802.11b/g/n (WCN3620) Bluetooth 4.1 + BLE Gen 8C GNSS with onboard U.FL connector (WGR7640)
Display	Up to 720p at 60fps optimized for wearables
Camera	2-lane MIPI CSI support
Audio	Integrated Codec/PMIC (PM8916-1) Fluence™ HD with Noise Cancellation (optional) Snapdragon™ Voice Activation (optional) Snapdragon™ Voice+ (optional)
I/O	SPI, I2S, GPIO, microSD, 1x USB client via micro-B (for recovery) and 4x USB host via Type-A, Ethernet
OS Support	Android 7 Nougat Android Wear compatible (optional)
Operating Environment	Input 12V or battery SOM 31.5mm x 15mm Carrier Board nano-ITX 120mm x 120mm

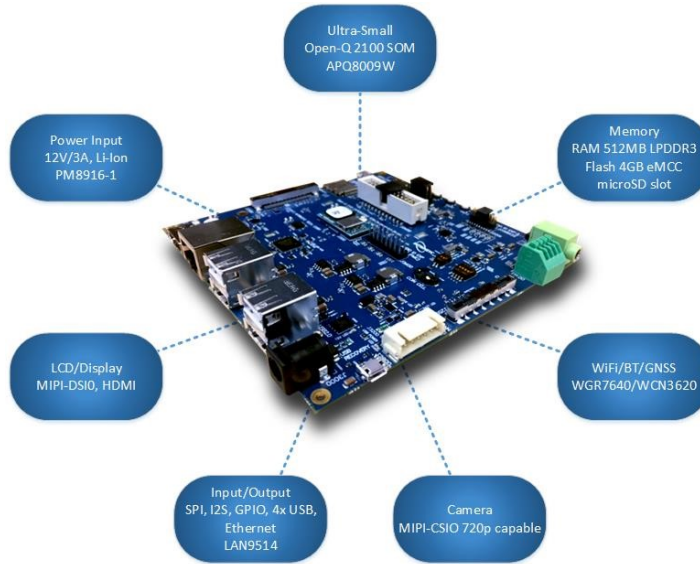



DESIGN : DEVELOP : BUILD

30% Smaller 30% smaller than the previous generation Snapdragon™ wearable processor

25% Less Power 25% more power efficient than previous generation Snapdragon™ wearable processor

 Great for connected wearables, trackers, tethered smartwatches and ultra-compact embedded designs



 Pre-certified Wi-Fi b/g/n and BT 4.1 + BLE, Gen 8C GNSS

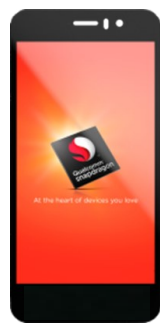
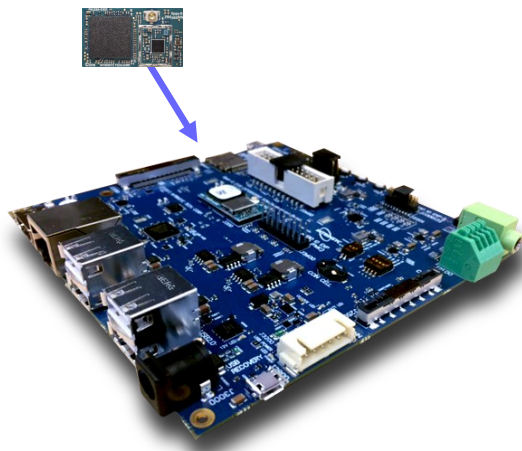
 Support for 2-lane MIPI CSU camera

 SPI, I2S, GPIO, microSD, 4x USB, Ethernet

CPU GPU Snapdragon™ Wear 2100 optimized for wearables includes high performance Quad-Core ARM Cortex A7 1.2 GHz with integrated Qualcomm® Adreno™ 304 GPU that offers exceptional performance with class-leading power efficiency

Features

- Qualcomm® Snapdragon™ Wear 2100 processor (APQ8009W)
- 512MB RAM 4GB FLASH
- Qualcomm® PMIC/Codec (PM8916-1)
- Pre-Certified Qualcomm® WiFi/BT (WCN3620)
- Gen 8C GNSS (WGR7640)
- SOM 31.5mm x 15mm
- Carrier Board nano-ITX 120mm x 120mm
- Android 7 Nougat
- Android Wear compatible (optional)



Optional Display and Camera



Datasheet: Open-Q 2100 Development Kit v4.0

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