

Shown with optional LCD / touch panel

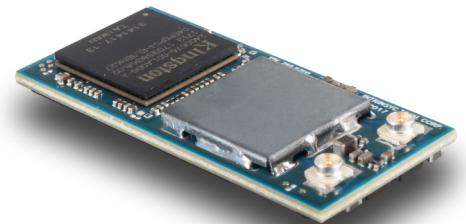
## Open-Q™ 2100 Development Kit

Based on the Qualcomm® Snapdragon™ 2100 processor

Intrinsic's Open-Q™ 2100 Development Kit is an open frame platform powered by our ultra-compact, production ready Open-Q™ 2100 SOM. The SOM 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 of ultra-compact or wearable devices, embedded and IoT edge devices, or voice recognition products.

### Key Features

- Qualcomm® Snapdragon™ 2100 SoC
- Powered by ultra-compact (31.5x15mm) Open-Q 2100 SOM
- Wi-Fi 802.11b/g/n 2.4GHz + BT 4.2
- Nano-ITX Form factor Carrier Board 120mm x 120mm
- Exposed I/O for evaluation and proof of concept work
- Android 7 for Wearables



Open-Q 2100 SOM



## Hardware Specifications

### Open-Q™ 2100 SOM

\*See the Open-Q 2100 SOM datasheet for complete details

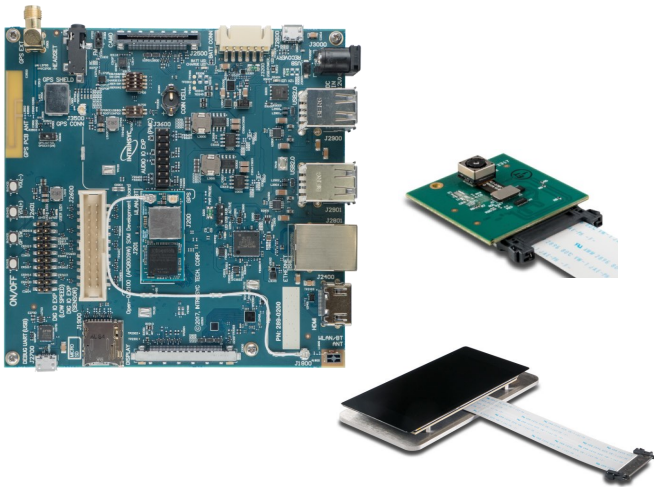
<b>Processor</b>	Qualcomm® Snapdragon™ 2100 (APQ8009W) Quad-Core ARM Cortex A7 (32-bit) at 1.094GHz, Qualcomm® Adreno™ 304 GPU, Low power sensor core DSP
<b>Memory/Storage</b>	512MB LPDDR3 RAM, 4GB eMMC Flash
<b>Wireless</b>	Wi-Fi 802.11b/g/n (WCN3620) w/ U.FL ant. connector Bluetooth 4.2 + BLE
<b>Location Services</b>	Qualcomm® Gen 8C GNSS (WGR7640) with U.FL antenna connector

### Open-Q 2100 Carrier Board

<b>Display Interfaces</b>	HDMI Type-A output via DSI -> HDMI bridge on carrier board — up to 720p 4 lane MIPI DSI interface for optional external LCD/touch panel
<b>Camera Interface</b>	2-lane MIPI CSI camera interface to support up to 8MP, compatible with optional camera accessory board
<b>Audio Interfaces</b>	Integrated Codec on SOM with the following interfaces on carrier board: 3.5mm headset jack Audio expansion header with 1x speaker output, 1x earpiece output, and 3x mic inputs
<b>I/O Interfaces</b>	1x USB client micro-B (for programming and ADB) and USB hub with 4x USB Type-A host ports + Ethernet 1x debug UART via USB micro-B microSD card socket, SPI, I2C, I2S, GPIO
<b>Input Voltage</b>	Input voltage: 12V from included power adapter or single-cell lithium-ion battery (not included)
<b>Form Factor</b>	Nano-ITX form factor carrier board 120mm x 120mm SOM size: 31.5mm x 15mm

## Software

<b>OS Support</b>	Android™ 7 for Wearables Note that all hardware features may not be supported by all SW — see latest SW release notes for details.
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Optional Display & Camera

## Purchasing Information

<b>Open-Q 2100 Dev Kit</b>	Part number: QC-DB-J00003	<a href="#">Store Link</a>
<b>Open-Q 2100 SOM</b>	Part number: QC-DB-J00004	<a href="#">Store Link</a>
<b>Open-Q 2100 LCD</b>	Part number: QC-DB-J00005	<a href="#">Store Link</a>
<b>Open-Q 13MP Camera</b>	Part number: 030-0181-0101_B	<a href="#">Store Link</a>

## Intrinsyc Product Design Services

Intrinsyc also offers comprehensive product development including hardware, software, mechanical engineering, as well as specialty services such as camera, audio, DSP, and RF development. Contact Intrinsyc to discuss your product design needs today: [sales@intrinsyc.com](mailto:sales@intrinsyc.com)

Development Kit includes: Carrier board, SOM, 12V power supply, HDMI cable, Quick Start Guide, access to full documentation, SW updates, and basic development kit support.

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