

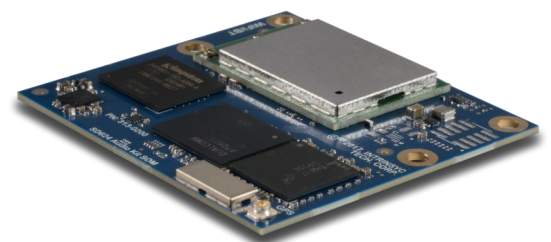
## Open-Q™ 624A Development Kit

Based on the Qualcomm® Snapdragon™ 624 processor

Intrinsic's Open-Q™ 624A Development Kit is a cost-effective, feature rich, exposed board platform powered by our Open-Q™ 624A SOM (System on Module), based on the Snapdragon™ 624 processor from Qualcomm® Technologies, Inc. The dev kit is ideal for evaluation of the Open-Q™ 624A SOM as well as jump-starting development of AI-enabled home hub products requiring tasks such as video conferencing, remote video monitoring, movie and video streaming. It supports audio with the included microphone board and stereo speaker amp board, as well as video with the option camera accessory and LCD/touch panel accessory.

### Dev Kit Features

- 2x Wi-Fi + 1x BT Antennas for diversity on carrier board
- 8x Digital Mics on carrier board
- Stereo speaker amps on carrier board
- 2x MIPI CSI camera connectors
- Generous I/O expansion headers
- Android™ 8 Oreo™



Open-Q™ 624A SOM



## Hardware Specifications

### Open-Q™ 624A SOM

\*See the Open-Q 624A SOM datasheet for complete details

<b>Processor</b>	Qualcomm® Snapdragon™ 624 (APQ8053) built on 14nm technology Octa-Core 64-bit ARM® Cortex™ A53 1.8GHz, Qualcomm® Adreno™ 506 GPU, Qualcomm® Hexagon™ DSP
<b>Memory/Storage</b>	2GB LPDDR3 RAM, 32GB eMMC Flash
<b>Audio</b>	Qualcomm® Hi-Fi audio codec on SOM (WCD9335)
<b>Wireless</b>	Pre-certified Wi-Fi/BT module - 802.11a/b/g/n/ac, 2x2 MU-MIMO, 2.4/5Ghz, Bluetooth 4.2 + BLE (QCA9379-3)
<b>Location Services</b>	GPS, GLONASS, Compass (WGR7640) w/ antenna connector

### Open-Q™ 624A Carrier Board

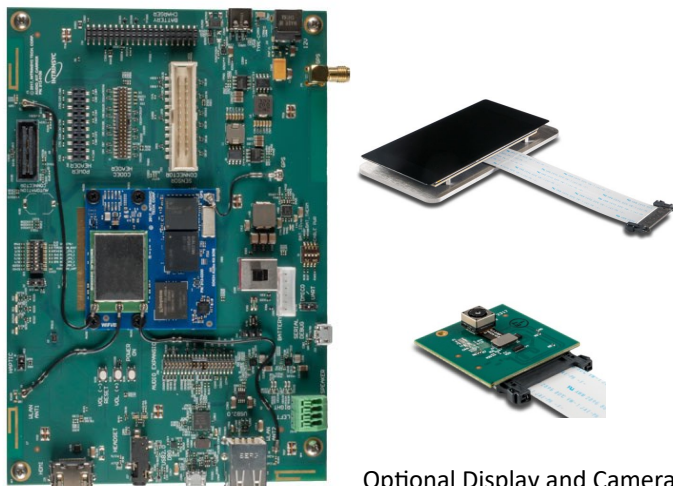
<b>Display</b>	1x 4-lane MIPI DSI connector for optional LCD/touchscreen, LCD up to 1080p Full HD 60fps
<b>Camera</b>	2x 4-lane MIPI CSI camera connectors
<b>Video</b>	Video Capture up to 1080p at 90fps, Video Playback up to 1080p at 90fps, H.264 (AVC) and H.265 (HEVC)
<b>Audio</b>	Qualcomm® stereo speaker amps (WSA8815)                      Analog and digital audio expansion headers: Stereo speaker terminals    4x analog mic inputs + 8x digital mic inputs 1x 3.5mm headset interface    1x stereo line output 8x digital microphones on carrier board                              I2S/SLIMBUS interface for external audio devices
<b>I/O</b>	1x USB3.0 Type C, Debug UART USB interface, Sensor expansion header, GPIO expansion header (GPIO, UART, SPI, I2C buses), Haptics output
<b>Wireless Antennas</b>	2x Wi-Fi PCB antennas (2x2 MIMO) + separate Bluetooth PCB antenna for isolation GNSS receiver front-end LNA/BPF + PCB antenna
<b>Operating Environment</b>	Power input: 12V/3A from included power adapter SOM size: 50mm x 46.5mm                      Carrier Board size: 170mm x 115mm

## Software

### OS Support

Android™ 8 Oreo™

\*Note that all hardware features may not be supported by SW — see latest SW release notes for details



Optional Display and Camera

## Purchasing Information

<b>Open-Q 624A Dev Kit</b>	Part number: QC-DB-M10023A <a href="#">Store Link</a>
<b>Open-Q 624A SOM</b>	Part number: QC-DB-M10032 <a href="#">Store Link</a>
<b>Open-Q 2100 LCD</b>	Part number: QC-DB-J00005 <a href="#">Store Link</a>
<b>Open-Q OV5693 Camera</b>	Part number: QC-DB-M10006 <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 (with 32GB eMMC), 12V power supply, Quick Start Guide, access to full documentation, SW updates, and basic development kit support.

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