

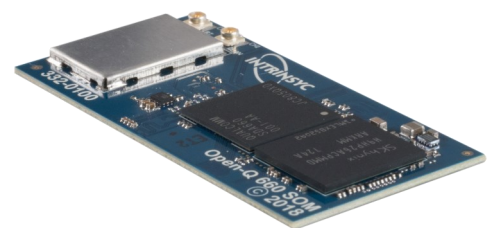
# Open-Q™ 660 μSOM Development Kit

Based on the Qualcomm® Snapdragon™ SDA660 processor

Intrinsic's Open-Q™ 660 μSOM Development Kit is a cost-effective, high performance, exposed board platform powered by the advanced Qualcomm® Snapdragon™ SDA660 processor on our ultra-compact "micro SOM" form factor. The Development Kit is ideal for evaluation of the Open-Q™ 660 μSOM as well as jump-starting development of advanced, intelligent, embedded and IoT products. It supports our optional Open-Q™ LCD / touch panel, optional 13MP camera module, and has many GPIO, sensor, audio, and other expansion interfaces.

## Key Features

- Qualcomm® Snapdragon™ SDA660 SoC
- Powered by ultra-compact (50x25mm) Open-Q 660 μSOM
- Open-frame Mini-ITX Form-factor Carrier Board (170x170mm)
- USB Type-C with VESA DisplayPort video output
- Android™ 9



Open-Q 660 μSOM



## Technical Specifications

### Open-Q™ 660 μSOM

\*See the Open-Q 660 μSOM datasheet for complete details

<b>Processor</b>	Qualcomm® Snapdragon™ SDA660, octa-core Kryo™ 260 CPU built on 14nm technology Qualcomm® Hexagon™ 680 DSP, Qualcomm® Adreno™ 512 GPU
<b>Memory/Storage</b>	4GB dual-channel high-speed LPDDR4X SDRAM at 1866MHz + 32GB eMMC Flash in combo eMCP chip
<b>Wireless</b>	Wi-Fi 802.11a/b/g/n/ac 2.4/5Ghz 2x2 MU-MIMO (WCN3990) with 5Ghz external PA & U.FL antenna connector Bluetooth 5.x

### Open-Q™ 660 μSOM Carrier Board

<b>Display</b>	2x 4-lane MIPI DSI on display connector for optional LCD / Touch Panel to mount on carrier board VESA DisplayPort on USB Type-C connector, for up to 4K30 or 2K60 video output
<b>Camera</b>	Qualcomm® Spectra™ dual 14-bit ISP 3x MIPI CSI camera connectors for optional camera accessories
<b>Video</b>	Video Capture up to 4K at 30fps, Video Playback 4K 30fps, H.264 (AVC), VP8
<b>Audio</b>	Qualcomm® WCD9335 Audio Codec module on Carrier Board 1x Stereo headset jack with mic input 20pin Audio Input expansion header, 3x analog in, 3x digital in 20pin Audio Output expansion header, 5x analog out, 1x digital out
<b>I/O</b>	1x USB3.0 Type-C with DisplayPort video out, 1x USB2.0 Type-A Host, microSD card socket Multiple BLSP ports (GPIO, UART, SPI, I2C buses), Sensor header, LED driver outputs
<b>Power Input</b>	Input 12V/3A (power adapter incl.), or single-cell Li-ion battery (not included)
<b>Size</b>	SOM: 50mm x 25mm, Carrier Board: Mini-ITX 170mm x 170mm with on-board mounting for optional LCD panel

## Software

<b>OS Support</b>	Android™ 9 — Note that all hardware features may not be supported by SW — see latest SW release notes for details
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### Optional Display and Camera

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

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## Purchasing Information

<b>Open-Q 660 μSOM Dev Kit</b>	Part number: QC-DB-N10003	<a href="#">Store Link</a>
<b>Open-Q 660 μSOM</b>	Part number: QC-DB-N10004	<a href="#">Store Link</a>
<b>Open-Q LCD / Touch panel</b>	Part number: QC-DB-G00005	<a href="#">Store Link</a>
<b>Open-Q 13MP Camera</b>	Part number: 030-0181-0101_B	<a href="#">Store Link</a>

## Intrinsic Product Design Services

Intrinsic also offers comprehensive product development including hardware, software, mechanical engineering, as well as specialty services such as camera, audio, DSP, and RF development.

Contact Intrinsic to discuss your product design needs today:

[sales@intrinsic.com](mailto:sales@intrinsic.com)

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