

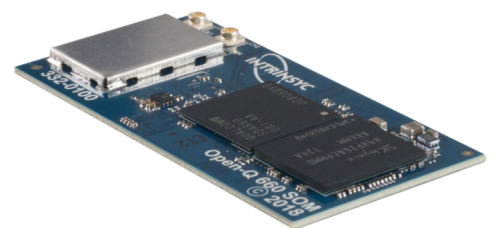
Open-Q™ 660 μSOM Development Kit

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

Processor	Qualcomm® Snapdragon™ SDA660, octa-core Kryo™ 260 CPU built on 14nm technology Qualcomm® Hexagon™ 680 DSP, Qualcomm® Adreno™ 512 GPU
Memory/Storage	4GB dual-channel high-speed LPDDR4X SDRAM at 1866MHz + 32GB eMMC Flash in combo eMCP chip
Wireless	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

Display	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
Camera	Qualcomm® Spectra™ dual 14-bit ISP 3x MIPI CSI camera connectors for optional camera accessories
Video	Video Capture up to 4K at 30fps, Video Playback 4K 30fps, H.264 (AVC), VP8
Audio	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
I/O	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
Power Input	Input 12V/3A (power adapter incl.), or single-cell Li-ion battery (not included)
Size	SOM: 50mm x 25mm, Carrier Board: Mini-ITX 170mm x 170mm with on-board mounting for optional LCD panel

Software

OS Support	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

Open-Q 660 μSOM Dev Kit	Part number: QC-DB-N10003	Store Link
Open-Q 660 μSOM	Part number: QC-DB-N10004	Store Link
Open-Q LCD / Touch panel	Part number: QC-DB-G00005	Store Link
Open-Q 13MP Camera	Part number: 030-0181-0101_B	Store Link

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:

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