



Open-Q™ 626 μSOM Development Kit

Based on the Qualcomm® Snapdragon™ 626 processor

Intrinsic's Open-Q™ 626 μSOM Development Kit is a cost-effective, feature rich, camera tuned, exposed board platform powered by our Open-Q™ 626 μSOM (micro System on Module) that is based on the Qualcomm Snapdragon™ 626 processor (APQ8053Pro).

The Development Kit is ideal for evaluation of the Open-Q 626 μSOM as well as jump-starting development of connected camera devices or other high performance embedded and IoT products. The Dev Kit supports our optional LCD or 1080p HDMI out, 4K Ultra HD H.264/H.265 encode and decode, up to 24MP cameras, mic inputs and stereo outputs.

Key Features

- Qualcomm® Snapdragon™ 626 processor (APQ8053Pro)
- Powered by micro-sized (50x25mm) Open-Q 626 μSOM
- Mini-ITX Form-factor Carrier Board (170x170mm)
- HDMI output, USB Type-C, 3 camera connectors
- Exposed I/O for evaluation and proof of concept work
- Android™ 10, Android™ 9, Yocto Linux®



Open-Q 626 μSOM



Hardware Specifications

Open-Q 626 μ SOM

*See the Open-Q 626 μ SOM datasheet for complete details

Processor	Qualcomm® Snapdragon™ 626 (APQ8053Pro) build on 14nm technology Octa-Core 64-bit ARM® Cortex™ A53 2.2GHz, Qualcomm® Adreno™ 506 GPU, Qualcomm® Hexagon™ DSP
Memory/Storage	2GB LPDDR3 RAM, 16GB eMMC Flash
Wireless	Pre-certified (FCC/IC) Wi-Fi 802.11b/g/n/ac 2.4/5Ghz (WCN3680B), Bluetooth 4.2 + BLE
Location Services	GPS, GLONASS and Compass Receiver (WGR7640) with U.FL antenna connector

Open-Q 626 Carrier Board

Display	HDMI Output or optional LCD / Touch Panel Up to 1080p Full HD LCD 60fps Up to 1080p HDMI Type A Output
Camera	Up to 24MP with 3x 4-lane MIPI CSI and dual ISPs
Video	Video Capture up to 4K Ultra HD at 30fps, Video Playback 4K Ultra HD, H.264 (AVC) and H.265 (HEVC)
Audio	Integrated audio codec (PM8953) with 1x Stereo headset jack including mic Additional Audio I/O Headers: 1x mono speaker, 1x mono earpiece output 3x analog mic inputs, 1x stereo digital mic input 2x I2S buses for additional external audio devices
I/O	1x USB3.0 Type C, multiple BLSP ports (GPIO, UART, SPI, I2C buses), Haptics output, LED driver outputs, microSD card socket, Wi-Fi/BT PCB antenna, GNSS PCB antenna, external GNSS antenna connector
Power Input	Input 12V/3A or single-cell Li-Ion battery (not included)
Size	SOM size: 50mm x 25mm Carrier Board size: Mini-ITX 170mm x 170mm

Software

OS Support	Android™ 10, Android™ 9, Android™ 8, Android™ 7, OpenEmbedded Yocto Linux® *Note that all hardware features may not be supported by all SW versions — see latest SW release notes for details
-------------------	--

Purchasing Information

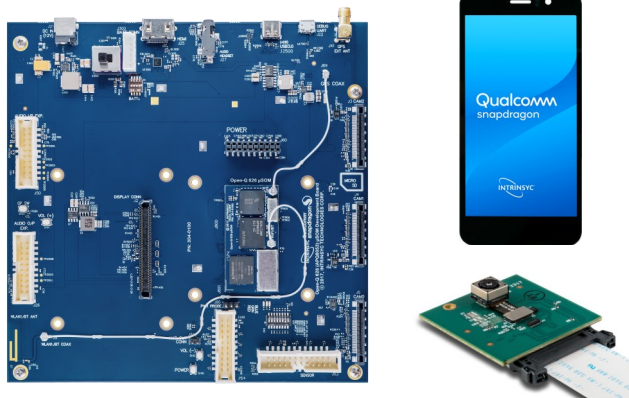
Open-Q 626 Dev Kit	Part number: QC-DB-M00003 Store Link
Open-Q 626 μSOM	Part number: QC-DB-M00004 Store Link
Open-Q 626 LCD	Part number: QC-DB-G00005 Store Link
Open-Q 13MP Camera	Part number: 030-0181-0101_B Store Link

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:

sales@intrinsyc.com



Optional Display and Camera

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.

Specifications are subject to change without notice. Not all features listed may be supported in software. All brand or product names are trademarks or registered trademarks of their respective owners. Qualcomm Snapdragon, Qualcomm Kryo, Qualcomm Spectra, Qualcomm Adreno, Flunce and Qualcomm Hexagon are products of Qualcomm Technologies, Inc. Qualcomm IZat is a product of Qualcomm Atheros, Inc. Qualcomm, Snapdragon, Adreno, Flunce and Hexagon are trademarks of Qualcomm Incorporated, registered in the United States and other countries. Kryo, Spectra and IZat are trademarks of Qualcomm Incorporated. Used with permission. Cortex is a trademark of ARM Holding plc. Used with permission.