

Open-Q™ 626 μSOM (micro System on Module)

Based on the Qualcomm® Snapdragon™ 626 processor

Intrinsyc's Open-Q™ 626 μSOM is an ultra-compact (50mm x25mm) production-ready, pre-certified, SOM that is ideal for powering next-generation connected cameras, and other IoT devices. The feature-rich SOM with its advanced processor technology supports premium 4K video with HEVC capture and playback for optimal balance of quality and bandwidth. It offers professional camera features, including — improved dynamic range, enhanced autofocus performance and computational photography. The SOM offers battery-efficient enhancements to audio, video, and computer vision use cases, PC-class graphics with support for advanced APIs and Hardware Tessellation and enables new always-on use cases at reduced power levels and cost.

Key Features

- Qualcomm® Snapdragon™ 626 processor (APQ8053Pro)
- Pre-certified (FCC/IC) Wi-Fi/BT
- Camera ready
- 2GB LPDDR3 and 16GB eMMC
- Ultra-compact 50mm x 25mm
- Android™ 9, Linux®

Applications

- Wearable cam / Action cam / 360 degree cam
- Smart home / IP cam / Security cam
- Industrial machine vision camera
- Stereo-vision camera
- Retail analytics camera
- Robotics / drones



Hardware Specifications

Processor	Qualcomm® Snapdragon™ 626 (APQ8053Pro) built on 14nm technology Octa-Core 64-bit ARM Cortex A53 2.2GHz Qualcomm® Adreno™ 506 GPU OpenGL ES 3.1, OpenCL 2.0 Full, DirectX 12, GPU Tessellation, Geometry Shading Qualcomm® Hexagon™ 546 DSP
Memory/Storage	2GB LPDDR3 RAM, 16GB eMMC Flash
Wireless	Pre-certified (FCC/IC) Wi-Fi 802.11a/b/g/n/ac 2.4/5Ghz (WCN3680B) with 5Ghz external PA & U.FL antenna connector Bluetooth 4.2 + BLE
Location Services	GPS, GLONASS, Compass (WGR7640) with U.FL antenna connector
LCD/Touchscreen Interface	2x 4-lane MIPI DSI LCD up to 1080P Full HD 60fps
Camera Interface	Up to 24MP with 3x 4-lane MIPI CSI and dual ISPs (additional software may be required)
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) Qualcomm™ Fluce™ HD with Noise Cancellation (optional) 1x Stereo headphone 1x mono speaker, 1x mono earpiece output 3x mic inputs, 1x stereo digital mic input Additional Audio I/O: 2x I2S buses
Power/Battery Management	Power management and battery charging (PMI8952)
I/O	1x USB3.0 Type-C, multiple BLS ports (GPIO, UART, SPI, I2C buses), Haptics output, 4-bit SDIO, LED driver outputs
Operating Environment	Input voltage: 3.6V to 4.2V Operating Temperature: -25°C to +85°C Tc (based on component case temperature specifications)
Form Factor	50mm x 25mm with 3x 100 pin board to board connectors

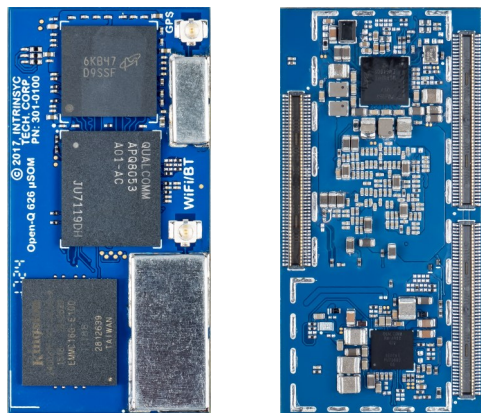
Software

OS Support	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
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Purchasing Information

Open-Q 626 μSOM Part number: QC-DB-M00004 [Store Link](#)

Alternate SOM configurations available by special order (minimum order quantities apply) - e.g. no GPS, different memory size, etc. Contact sales to discuss your specific needs today: sales@intrinsyc.com



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