

Open-Q™ 410 System on Module

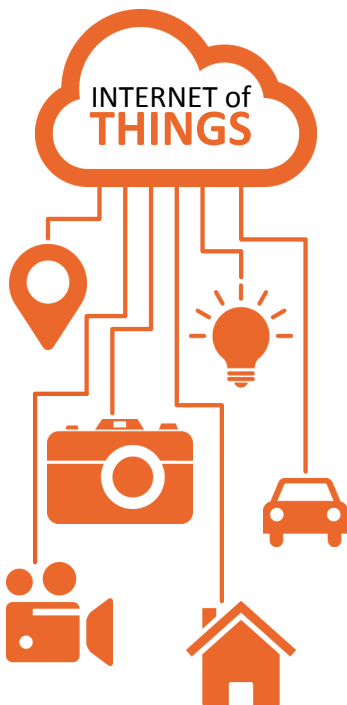
Based on the Qualcomm® Snapdragon™ 410 processor (APQ8016)

**START DESIGNING
YOUR EMBEDDED
AND IOT DEVICES
TODAY**

Intrinsic's Open-Q 410 System on Module (SOM) is a compact, production ready module based upon Qualcomm's Snapdragon 410 processor. The SOM's small form factor, advanced technology, and extensive range of supported peripherals provide the perfect platform for creating low cost, high performance embedded and mobile devices.

Technical Information

Processor	Snapdragon 410 quad core ARM® Cortex® A53 (64bit, 1.2GHz) Qualcomm® Adreno™ 306 GPU Qualcomm® Hexagon™ v5 DSP
Memory / Storage	1GB LPDDR3 RAM (533MHz) 8GB eMMC 5.0 Flash
Wireless	Wi-Fi 802.11b/g/n 2.4 GHz single band Bluetooth 4.1
Display	1x MIPI-DSI 4-lane , up to 720p 60fps or 1080p 30fps
Camera	2x MIPI-CSI 1x 4-lane, 1x 2-lane , up to 13MP
Audio	2x I²S 3x Analog in 4x Analog out 2x Digital mic
Other Interfaces	1x USB 2.0 (client or host) 6x BLSP 4-pin port configurable as I2C, SPI, UART or GPIO 1x SDIO 30x GPIO
Location	Qualcomm® IZat™ Gen 8C GPS GLONASS
OS Support	Android 5.1 (Lollipop) Linux
Dimensions	44mm x 26.5mm
Power Supply	3.3V - 4.2V can operate from single cell Lithium battery



DESIGN : DEVELOP : BUILD



Implement low power audio playback and recording solutions with multi-codec support, noise cancellation, voice activation and surround sound



Capture and process high resolution images up to 13MP, with support for hardware based noise reduction and JPEG encoding



Use the latest Gen 8C GPS technology. Track, tag and embedded additional information with real time device location data



Deliver a superior user experience with the advanced quad-core ARM Cortex A53 CPU that is both 32bit and 64bit capable, the Hexagon DSP and Adreno 306 GPU. Includes support for OpenGL ES 3.0 and OpenCL



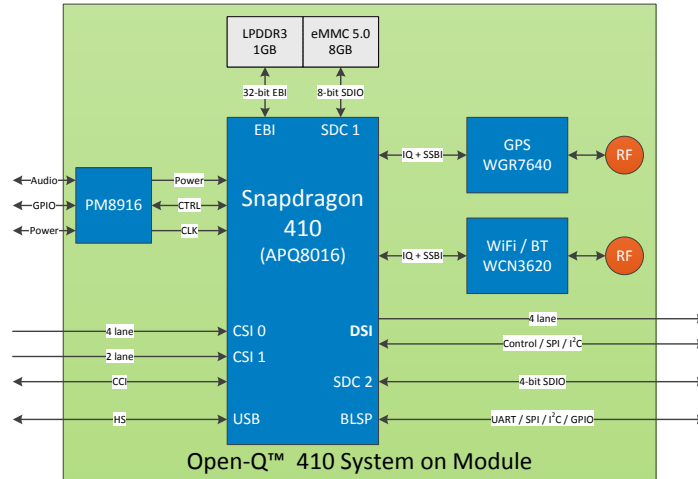
Design and develop smart connected devices with integrated wireless connectivity. Support for 802.11n (2.4GHz) Wi-Fi and Bluetooth 4.1 LE



Record, stream and playback high quality multi-media video with H.264 encode and decode along with multi-channel audio

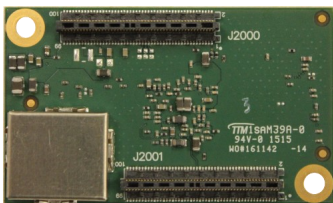


Add connections to external memory, sensors, and a host of other peripheral devices via the comprehensive list of configurable IO



Features

- Snapdragon 410 CPU (APQ8016)
- Combo RAM & Flash (eMCP)
 - 1GB LPDDR3 (533MHz)
 - 8GB eMMC 5.0
- PM8916 Power Management IC
 - Support for Lithium Ion battery charging
- Atheros Wi-Fi + BT combo chip (WCN3620)
- Atheros GPS RF front end (WGR7640)



For additional information and to order please visit

www.intrinsyc.com/openqsom

Datasheet: Open-Q 410 SOM, Sept 2015, Rev. 1.1

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