

Open-Q™ 410 System on Module

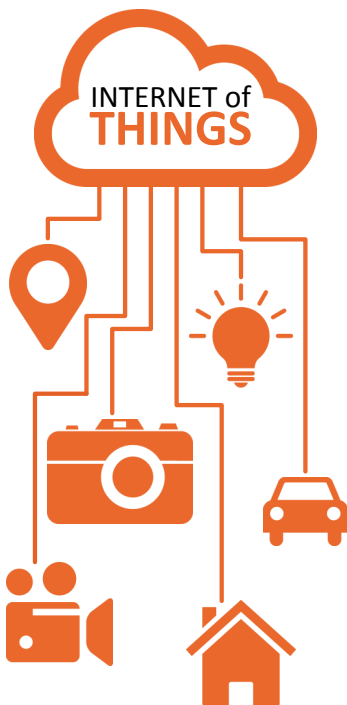
Based on the Qualcomm® Snapdragon™ 410 processor

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


Intrinsic's Open-Q™ 410 System on Module (SOM) is a compact, pre-certified, 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 (APQ8016) Quad-Core ARM® Cortex® A53 (64-bit, 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 FCC/IC Modular Certified Wi-Fi/BT with RF shield
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™ 7 Nougat, Android™ 5 Lollipop, Linux® Microsoft Azure Certified
Operating Environment	Input Power 3.3V - 4.2V Operating Temperature -25°C to +85°C Dimensions 44mm x 26.5mm

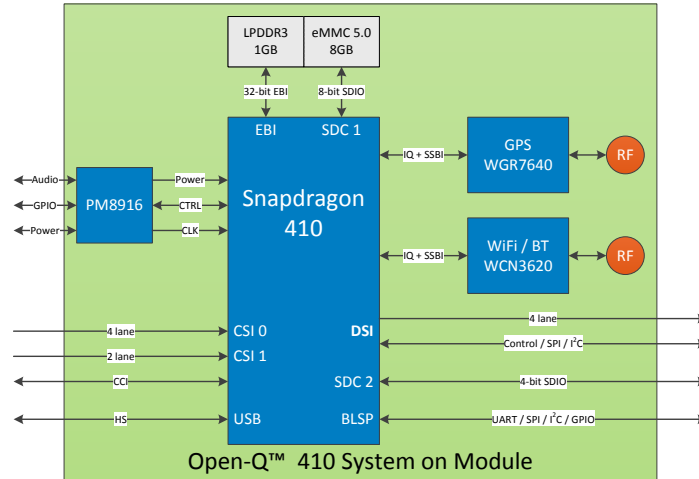



DESIGN : DEVELOP : BUILD


 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



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

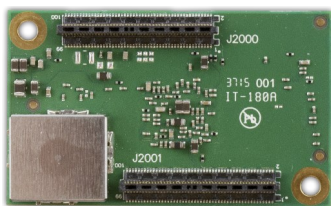
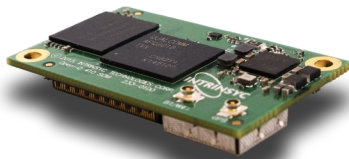
 Record, stream and playback high quality multi-media video with H.264 encode and decode along with multi-channel audio

 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

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

Features

- Snapdragon 410 processor (APQ8016)
- Combo RAM & Flash (eMCP)
 - 1GB LPDDR3 (533MHz)
 - 8GB eMMC 5.0
- Power Management (PM8916)
 - Support for Lithium Ion battery charging
- Qualcomm Wi-Fi/BT combo chip (WCN3620)
- FCC/IC Pre-certified Wi-Fi/BT
- Qualcomm GPS RF front end (WGR7640)
- Android™ 7 Nougat, Android™ 5 Lollipop, Linux
- Microsoft Azure Certified



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