



Qualcomm snapdragon

## DragonBoard 810 Embedded Development Kit Based on the Qualcomm<sup>®</sup> Snapdragon<sup>™</sup> 810 processor

# START DESIGNING YOUR EMBEDDED AND IOT DEVICES TODAY



Intrinsyc's DragonBoard 810 Embedded Development Kit is a versatile, easy-to-use exposed board platform providing the ideal starting point for creating the next generation embedded and IoT devices. The platform consists of Intrinsyc's Open- $Q^{\text{TM}}$  810 System on Module, a carrier board exposing all the available IO, and a range of accessories to fast track your product development.

### **Technical Information**

Open-Q 810 SOM	<ul> <li>Snapdragon 810</li> <li>Octa core ARM® Cortex® quad A57, quad A53</li> <li>Qualcomm® Adreno™ 430 GPU</li> <li>Qualcomm® Hexagon™ v5.5 DSP</li> <li>4GB LPDDR4 RAM (1600MHz)</li> <li>16GB eMMC 5.0 Flash</li> <li>Wi-Fi 802.11b/g/n/ac 2.4 / 5.0 GHz dual stream, dual band</li> <li>Bluetooth 4.1</li> <li>IZat™ Gen 8C GPS</li> </ul>
Display	2x MIPI-DSI 4-lane, 60fps, up to 2560x1600 (single port), 4096x2160 (dual port) 1x HDMI 1.4a up to 3840x2160, 30fps
Camera	3x MIPI-CSI 4-lane, dual ISP, up to 28MP
Audio	3x 3.5mm Jack headset, line-in, line-out 24pin Digital audio expansion header 3x Analog audio 2x 2pin speaker header, 1x 10pin front panel header
Other Interfaces	1x UART debug header 1x USB OTG micro-AB 4x USB 2.0 host, 2x type-A, 2x front panel header 2x USB 3.0 host, type-A 1x PCIe v2.1 2x SATA 1x μSD Socket 4x Digital IO 3x 20pin, 1x 24pin, expansion header, I <sup>2</sup> C, SPI, UART or GPIO
OS Support	Android 6.0 (Marshmallow)
Dimensions	SOM 82mm x 40mm Carrier board 170mm x 170mm
Power Supply	12V DC & ATX

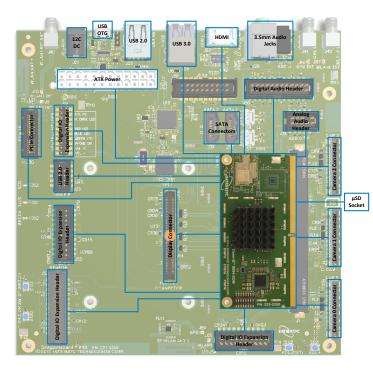
#### www.intrinsyc.com

## **DESIGN : DEVELOP : BUILD**

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

Capture and process high resolution images up to 28MP, with support for hardware based noise reduction and JPEG encoding. Easily support multiple concurrent cameras with the dual ISP architecture

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

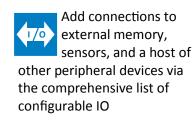


Desi sma

Design and develop smart connected devices with integrated

wireless connectivity. Support for Bluetooth 4.1 LE as well as the latest 802.11ac dual band, dual stream Wi-Fi offering the fastest data transfer and streaming speeds

Record, stream and playback high quality multi-media video with H.265 (HEVC) encode and decode. Supporting 4K UHD displays, eye catching visuals can easily be integrated



### **Optional Accessories**

13MP Camera Module







#### For additional information and to order please visit

#### www.intrinsyc.com/db810

Datasheet: DragonBoard 810, June 2016, Rev. 1.2

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