Qualcomm® Snapdragon™ S4 processors deliver high performance computing and low power consumption with a rich multimedia experience for embedded devices.

- Dual core Krait CPU configuration for multitasking on the move
- 128 bit SIMD NEON providing up to 2x performance accelerating multimedia and DSP algorithms
- Asynchronous SMP (aSMP) technology with dedicated power management processor with optimal battery life
- High-definition 1080p video playback and multi-screen support, with integrated HDMI
- Adreno 225 GPU
- High-definition 1080p video encode/decode (MPEG-4 / MPEG-2 / H.264 / DivX / VC-1 / WMV-9) with multi-screen HD support, including HDMI
- High-resolution WSXGQ 1680 x 1050 display support via 4 lane MIPI DSI
- Miracast support, WiFi wireless streaming to external HD display
- Advanced Dolby 5.1 surround sound, voice codecs (QCELP, EVRC, GSM, AMR, G.711, G.729A/AB) and audio codecs (MP3, AAC, AAC+, eAAC+, WMA, Vorbis, FLAC)
- 500 MHz Hexagon QDSP for differentiated signal processing
- Up to three cameras, with support of up to 20MP, image stabilization, zero shutter lag, HDR
- Full wireless connectivity with onboard Wi-Fi, Bluetooth, FM radio, and precision GNSS (GPS + GLONASS) location receivers
- Embedded Connectivity: USB, HSIC, I2S, UART, SPI, I2C, GPIOs and JTAG

WHY SNAPDRAGON FOR EMBEDDED SYSTEMS?

- Industry leading CPU performance
- Best-in-class energy efficiency for long lasting battery life
- Industry leading GPU performance
- Rich multimedia and connectivity capabilities
- Differentiate with a Dedicated Hexagon™ QDSP

If these are your requirements, embedded systems powered by Snapdragon S4 processors will make it easier.
PERFORMANCE HIGHLIGHTS

CPU performance
✦ Dual Krait CPUs for superior performance
✦ Neon 128 bit SIMD, 2X standard ARM designs (64-bit)

Energy efficiency
✦ Superior power consumption metrics*
✦ Unique ability to run each CPU at different Voltage and Frequency using asynchronous SMP technology (aSMP)
✦ Dedicated power management processor

GPU performance
✦ 1.5-3x better than competition**
✦ OpenGL ES 1.1/2.0, Open CL 1.1, WebGL 1.0, OpenVG 1.1, Renderscript and DirectX9.3

Rich multimedia capabilities
✦ 1080p video encode/decode support with Dual HD display output
✦ Multiple megapixel camera inputs with integrated ISP

Differentiate with a Dedicated Hexagon™ QDSP
✦ Dedicated audio processor

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*Source: Qualcomm
**Source: Anandtech

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