



Ultimate performance with  
Green Technologies

# Samsung **Exynos4** QUAD PROCESSOR

## ARM Quad Cortex-A9 based Mobile Application Processor

A fantastic experience of the Quad Core mobile CPU is about to begin.

A Samsung's State-of-art application processor having perfect mobile capabilities, such as rich Full HD multimedia and 3D graphics with dramatically sustaining low power based on 32nm High-K Metal Gate low-power process.

It's the center of next-generation mobile devices, such as Smartphones and Tablet PC.

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## ARM Quad Cortex-A9 based Mobile Application Processor

### Key Features & Benefits



#### Low Power Quad Core Cortex-A9 Processor - Exceeding 1.4GHz

- ARM Cortex-A9 Quad core processor – Exceeding 1.4GHz
- High Memory Bandwidth for graphic-intensive apps (6.4GB/s)
- Diverse Memory support (LPDDR/LPDDR2/DDR3)



#### Top Notch 3D performance (up to 1.7X better performance than Exynos 4 Dual)

- World's highest-class mobile 3D graphic processor
- Performance enhanced by 32nm HKMG process and advanced architecture



#### Lower Power Consumption (Over 30% power efficient than 45nm LP process)

- 32nm HKMG LP process for drastically decreases power consumption
- Power management with Multiple Power Domain and Dynamic Voltage Frequency Scaling
- System level power optimization with companion PMIC (S5M8767)



#### High performance Hardware MFC & ISP

- HD 1080P Multi Format codec with full profile support (MPEG4 ASP/H.264 HP/H.263 P3 en/decoding, MPEG2/VC1/WMV9)
- Image Signal Processor for high quality camera experience
- Low power audio processor with dedicated SRAM

### System Diagram

