

Marvell Launches Octa-Core 64-Bit 5-Mode 4G LTE ARMADA Mobile PXA1936 System-On-Chip For High Performance Smartphones And Tablets Globally

Marvell's new 5-mode 4G LTE ARMADA mobile PXA1936 SoC features 8× ARM Cortex A53, advanced graphics and security functions, high performance image processing, and integrated sensor fusion capabilities

SANTA CLARA, Calif., Nov. 17, 2014 /PRNewswire/ -- [Marvell](#) (Nasdaq: MRVL), a worldwide leader in providing complete silicon solutions from mobile communications to storage, Internet of Things (IoT), cloud infrastructure, digital entertainment and in-home content delivery and Kinoma® software enabling the "Smart Life and Smart Lifestyle," today announced the octa-core 64-bit 5-mode 4G LTE ARMADA® Mobile PXA1936 system-on-chip (SoC) targeted for high performance smartphones and tablets globally. Marvell's new 5-mode 4G LTE mobile processor features 8× ARM Cortex A53, advanced graphics and security functions, high performance image processing, and sensor fusion capabilities. The PXA1936 solution is a part of Marvell's 64-bit mobile LTE SoC family which also includes the [ARMADA mobile PXA1908](#). The ARMADA mobile PXA1936 maintains complete software compatibility with the PXA1908 SoC, enabling OEMs and ODMs to quickly and seamlessly launch a higher performing octa-core mobile phone. Supporting today's most popular wireless protocols, the ARMADA Mobile PXA1936 addresses the following wireless communications: TD-LTE, FDD-LTE, TD-SCDMA, WCDMA and GSM.

"4G LTE is such a critical technology to enable mobile computing, social networking, cloud gaming and other data intensive applications that are part of our daily lives. I believe our single-chip octa-core ARMADA Mobile PXA1936 delivers best-in-class 5-mode 4G LTE connectivity and industry-leading processing, security, graphics and sensor fusion capabilities that will enable mobile products with outstanding performance, long battery lifetime, affordable price point and superior total user experience and empower global mobile operators and tier-one OEMs for the rapid deployment of 4G LTE high performance smartphones and tablets to the mass market around the world," said Weili Dai, President and Co-Founder of Marvell. "At Marvell it is our mission and passion as a global leader to provide the benefits of our great innovations and inventions to better peoples' lives. I am very proud of our talented engineering teams for once again raising the technology bar in advancing the mobile industry."

"Mobile processors continue to innovate rapidly. In the smartphone market, I expect the biggest growth will be in affordable phones using highly integrated processors. The 64-bit ARMADA Mobile PXA1936 extends Marvell's success in this market with a higher-performance octa-core architecture," said Linley Gwennap, Principal Analyst of The Linley Group.

The ARMADA Mobile PXA1936 features Marvell's low-power sensor hub technology delivering unprecedented sensor fusion capabilities. As part of Marvell's 64-bit family of mobile SoCs, it also paves the way for device makers to release 64-bit tablets and smartphones with the Android L operating system. The processor will soon be available for the smartphone and tablet market and is expected to ship in devices by early 2015.

Key features of the Marvell ARMADA Mobile PXA1936 include:

- Octa-core Cortex A53, up to 1.5GHz clock speed
- Supports 1080p display, and video encoding and decoding
- Improved image processor to support 13 to 16MP camera
- Advanced power management and audio codec for power efficiency and audio performance
- Enhanced security processor
- Integrated location and sensor hub functionalities for better usability
- Field proven DSDS software for 5-mode modem

To learn more about the Marvell ARMADA PXA1936 processor visit <http://www.marvell.com/communication-processors/pxa1936>

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions and Kinoma® software enabling the "Smart Life and Smart Lifestyle." From mobile communications to storage, Internet of Things (IoT), cloud infrastructure, digital entertainment and in-home content delivery, Marvell's diverse product portfolio aligns complete platform designs with industry-leading performance, security, reliability and efficiency. At the core of the world's most powerful consumer, network and enterprise systems, Marvell empowers partners and their customers to always stand at the forefront of innovation, performance and mass appeal. By providing

people around the world with mobility and ease of access to services adding value to their social, private and work lives, Marvell is committed to enhancing the human experience.

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