

February 19, 2013



Marvell Announces Industry's Most Advanced Single-chip Quad-core World Phone Processor to Power High-performance, Smartphones and Tablets with Worldwide Automatic Roaming on 3G Networks

Expecting commercial device production in 2013

SANTA CLARA, Calif., Feb. 19, 2013 /PRNewswire/ -- Marvell (Nasdaq: MRVL) today announced the Marvell® PXA1088, a highly integrated quad-core application and communications mobile System-on-Chip (SoC) that provides high performance, low-power mobile computing; support for all global broadband standards, enabling seamless global roaming; and the latest wireless connectivity technology. Marvell's PXA1088 is the industry's most advanced single-chip solution to feature a quad-core processor with support for 3G field-proven cellular modems including High Speed Packet Access Plus (HSPA+), Time division High Speed Packet Access Plus (TD-HSPA+) and Enhanced Data for GSM Environment (EDGE).

(Logo: <https://photos.prnewswire.com/prnh/20100719/SF36559LOGO-b>)

"Marvell is proud to deliver our single-chip quad-core world-mode mobile platform. This is a testament of our great technology innovation capabilities and engineering prowess to bring our unified platform from dual-core to quad-core to the smart device marketplace with multi-mode capabilities and automatic roaming on 3G networks around the world. We're very excited that global OEM/ODM partners have embraced and committed to this platform," said Weili Dai, Co-Founder of Marvell. "I believe our industry leading single-chip platform will drive mass market adoption of high-quality, high-performance, very affordable smartphone and tablet solutions worldwide to enrich people's connected lifestyle."

The Marvell PXA1088 solution incorporates the performance of a quad-core ARM Cortex-A7 with Marvell's mature and proven WCDMA and TD-SCDMA modem technology to provide a low-cost 3G platform for both smartphones and tablets. The advanced application processor technology of the PXA1088 enables a breakthrough end user experience for multimedia and gaming applications with universal connectivity. Marvell's complete mobile platform solution includes the Avastar® 88W8777 WLAN + Bluetooth 4.0 + FM single-chip SoC and the L2000 GNSS Hybrid Location Processor, and an integrated power management and audio codec IC.

Marvell's PXA1088 is backward pin-to-pin compatible with its dual-core single-chip Unified 3G Platform, the PXA988/PXA986, enabling device partners to upgrade their next-generation mobile devices to quad-core without additional design cost.

Marvell will showcase the PXA1088 alongside a range of mobile devices powering the Connected Lifestyle at booth 6C44 (in Hall 6) at Mobile World Congress, February 25-28, at the Fira Gran Via in Barcelona.

Additional PXA1088 Features:

- Support for advanced WCDMA Release 7, TD-SCDMA HSPA+ Release 8, and class 12 EDGE
- 3G protocol stack certified on all major carrier networks and validated via extensive IOT, GCF and field trail testing
- Support for popular full-feature operating systems and industry-standard development tools
- Multi-radio platform capabilities with WLAN/Bluetooth solutions
- Integrated power management and audio Codec IC
- High-performance graphics engine for OpenGL ES 2.0 and 1.1, as well as OpenVG 1.1
- Hardware 1080p decoder and 1080p encoder
- 12mm x 12mm JEDEC standard package-on-package stacked memory option or discrete package option
- Supports the latest Android OS

Currently, the PXA1088 platform is sampling with leading global customers. Products based on this platform are expected to be commercially available in 2013.

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions enabling the digital connected lifestyle. From mobile communications to storage, 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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