

## Marvell, World's No. 1 Provider Of Printer SoC Solutions, Revolutionizes 3D Printing For The Global Mainstream Market With Its Game-Changing Silicon And Kinoma Software Platform Solution

**Marvell introduces the industry's first fully integrated 3D printer system-on-chip and platform solution and extends its global leadership to the new era of 3D printing**

SANTA CLARA, Calif., Dec. 15, 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 industry's first fully integrated 3D printer system-on-chip (SoC) and software solution platform, further extending Marvell's technology leadership position in printer technology and marking a new era in the printing market. Marvell's pioneering technology platform is based on the company's powerful and flexible 88PA6120 SoC, a revolutionary hardware development kit and full Linux-based software development kit, addressing the unique needs of the burgeoning 3D printer market segment. Marvell's 3D printer SoC solution platform is designed to help drive 3D printing into mainstream applications by enabling a broad array of customers to quickly bring innovative, full-featured 3D printer products to market and enhancing the end user 3D printing experience.

"Smart printing is an important part of the 'Smart Life and Smart Lifestyle.' As the world's #1 leader in printer processing technology, I am very proud of our latest innovation that revolutionizes 3D printing and brings the benefit of this very exciting technology to the mainstream market globally. Combining the high performance of our advanced silicon hardware with the ease-of-use, flexibility and cloud service capability of our unique Kinoma software, I believe our complete platform solution will empower our global customers and partners with cutting-edge, cost-effective 3D printers for the masses and enable a new era of 3D printing," said Weili Dai, President and Co-Founder of Marvell. "I am very thankful for our innovative and dedicated engineering teams and their continuous contributions to the printing industry. At Marvell, it is our passion and mission to continue innovating, inventing, and creating new technologies that better the lives of all consumers around the world."

"IDC predicts that 3D printer unit sales and installed base will witness a strong growth across the global market through 2017, largely due to today's adoption of 3D printers in more advanced business applications," said Keith Kmetz, vice president of IDC's Imaging, Printing and Document Solutions research. "We see tremendous market opportunity for vendors, such as Marvell, to deliver development kits that support the adoption of 3D printing – making it part of mainstream printing technologies. For example, we anticipate that 3D printing will expand rapidly in key vertical markets such as aerospace, automotive, education, dental, manufacturing as well as recreational, to name a few."

Marvell's 3D printer SoC solution provides a complete reference kit with full-featured functionality to enable turnkey development and quick time-to-market of 3D printer products. The 3D printer SoC solution includes Marvell's 88PA6120, a 533 MHz, ARM v7 compatible processor with dual real-time microprocessors, enabling highly-customizable precision motion control. The combination of Marvell's host processors and hardware and software reference platforms provide a unique feature set to meet the distinctive requirements of the 3D printing market. In addition, the full reference kit incorporates features such as rich user interfaces with touch LCD support to allow for advanced touch screen control functionality.

Key features of [Marvell's new 3D printer development platform](#) include:

- Marvell's 88PA6120 SoC
  - 533MHz ARM v7 compatible processor
  - Dual real-time microprocessors for highly customizable precision motion control
  - Rich user interfaces with touch LCD support
  - Integrated 10/100 PHY, USB, DRAM, SD, and eMMC
  - Multiple motor controls and print head interfaces
  - HW encryption support for IPSec & SSL
- Several Marvell WiFi/Bluetooth options such as Marvell's 88W8801 Avastar® Wi-Fi SoC
- Full-featured Linux SDK, including real-time 3D motion control, Ethernet and WiFi network stacks, LCD user interface, and board support package
- Full development tool support
- Flexible hardware development platform with connectivity options for multiple 3D printer designs

Marvell will be demonstrating its printer solutions including its new 3D SoC solution platform offering at CES

2015 in Marvell's booth, Level 3, Murano 3304, at The Venetian. CES is being held in Las Vegas, NV at the Las Vegas Convention and World Trade Center and the Venetian Hotel on Jan. 6-9, 2015.

## **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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