

June 3, 2013



Marvell Introduces New High Performance Single-chip Multicore Gateway with Unmatched Data Forwarding Capabilities for Passive Optical Networks

Compliant with leading telecom operators' specifications, including China Telecom's E8C, and optimized for performance and cost-effectiveness, the AVANTA LP is an ideal optical broadband connectivity solution for the next era of the Connected Lifestyle

SANTA CLARA, Calif., and TAIPEI, Taiwan, June 3, 2013 /PRNewswire/ -- Marvell (NASDAQ: MRVL) today introduced the Marvell® AVANTA® LP System-on-Chip (SoC) family, based on ARM Cortex-A9 architecture, to meet the latest video/audio-centric interactive environment requirements in modern, high-speed internet networks. The new SoCs are a powerful expansion of the highly successful AVANTA family of Universal Passive Optical Networks (UPON) processors for fiber-to-the-x (FTTX) broadband applications. The AVANTA LP product line addresses the fast-growing demand for optical network terminals (ONT) by presenting an elegant, power-efficient and highly integrated solution tailored to meet highly constrained, leading world telecoms system specifications.

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The AVANTA LP family is designed to provide original equipment manufacturers (OEMs) and original design manufacturers (ODMs) with a high performance, low-power, robust and cost-competitive solution that enables a wide range of two-layer PCB design optimized for voice, video and data applications, with significant Bill of Material (BOM) cost savings. With the AVANTA and AVANTA LP portfolios, Marvell also empowers global telecom operators and internet service providers (ISPs) that address the entire spectrum of Smart Home devices, ranging from single family units (SFUs) to enterprise-class wireless local area network (WLAN) access points. Further, the AVANTA LP's innovative packet processor design coupled with groundbreaking data forwarding optimization, present unmatched hardware- and software-assistant packet forwarding capabilities for residential and enterprise gateways applications. The AVANTA LP solution also comes fitted with additional on-board optional interfaces, such as voice, 802.11ac Wi-Fi, storage and G.hn over twisted pair, powerline or coaxial for in-house communication, as well as LTE data connectivity.

"Marvell proudly addresses both the PON and Smart Home markets with the new AVANTA LP series, enhancing the way consumers access their live immersive digital content anytime, anywhere," said Winston Chen, vice president for the Smart Home Business Unit at Marvell. "With Marvell's advanced packet processor design and breakthrough data forwarding

optimization, we provide global manufacturers, telecom operators and ISPs with unmatched data forwarding capabilities at unparalleled speed further driving the next era of the digital lifestyle for consumers around the world."

The AVANTA LP family of SoCs provides a complete portfolio of next-generation PON networking devices. The newly available product line includes the flagship 88F6660 Universal PON SoC with Dual-core 800MHz/1 GHz Cortex-A9 CPU complex and integrated 32-bit memory controller for superior user experience and performance. A rich set of peripherals, such as dual USB ports, dual PCIe Express Gen 2.0 and dual SATA 2.0, enables an easy adoption for various networking applications.

Along with the 88F6660, Marvell is pleased to announce an additional member of the AVANTA LP family – 88F6650 UPON 800MHz Cortex-A9 SoC. The 88F6650 is a performance-optimized device, designed to reduce the ONT BOM cost structure by reaching the highest level of integration with an embedded packet processor, 6-Gigabit port switch, quad GE PHYs and fits two layer PCB designs.

Marvell's Smart Home connectivity solutions and the AVANTA LP family product line will be showcased during COMPUTEX 2013 at the Marvell suite, T101C, located on the first floor of the Taipei International Convention Center, June 4-8.

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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