Gigahertz-Class ARMADA 310 Processor Combines High Performance, Extensive Feature Set with Markedly Lower Power

Marvell recently announced a new addition to the ARMADA™ family of application processors in honor of Earth Day 2010 – the Marvell® ARMADA 310. The System-on-a-Chip (SoC) is designed to deliver scalable performance of up to 1 GHz while consuming less than 1 Watt – a striking industry benchmark for the enterprise application developer community. The ARMADA 310 opens doors to new greener embedded enterprise applications with gigahertz-class performance to muscle computing horsepower for digital homes and small and remote office applications, as well as for new intelligent solutions for Plug Computing, medical, financial and point-of-sale (POS) markets. The advanced ARMADA 310 offers designers the opportunity to develop high performance, power-efficient green systems with smaller form factors for a variety of peripherals such as routers, microservers, dongles, PC cards, industrial and medical systems. The ARMADA 310 offers scalable performance from 600 MHz to 1 GHz and the ability to power down as low as 700 mW. To help maximize bandwidth, reduce power consumption and drive down system cost, the new SoC features an on-chip 16-bit DDR2/3 interface. The highly integrated IC also drives down bill of material (BOM) costs by adding a wide variety of communications options including two PCI-express bus interfaces, two Gigabit Ethernet (GbE) MACs, a USB 2.0 compliant port with an integrated PHY that can serve as a peripheral or host, and an embedded 16-bit LCD controller.

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