Legerity Licenses DSP Group's High-Performance Digital Signal Processing Core

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DSP Group's PalmDSPCore® Technology Provides Legerity with a Platform for Next-Generation, DSP-Based xDSL Solutions

AUSTIN, Texas and SANTA CLARA, Calif.—October 30, 2000—Legerity, Inc., a leading provider of silicon solutions for data and voice communications, and DSP Group Inc., (NASDAQ:DSPG), a world leader in the development and marketing of high-performance, cost-effective digital signal processing cores, today announced they have entered into a strategic DSP technology licensing agreement. Under the terms of the agreement, Legerity has licensed DSP Group's PalmDSPCore technology as a platform for developing its next-generation silicon solutions for xDSL communications.

The licensing of PalmDSPCore technology augments Legerity's extensive portfolio of intellectual property, which includes more than 600 silicon and system-level patents. Legerity's core technology expertise encompasses systems architecture; mixed-signal, analog and DSP design; and high-voltage bipolar circuit design. Legerity's proprietary, high-voltage wide-bandwidth process enables unparalleled chip-level integration of data and voice capabilities.

"DSP Group's PalmDSPCore technology gives Legerity a solid DSP foundation for the development work we are doing to deliver highly integrated chipsets for today's DSLAM architecture, as well as for next-generation xDSL solutions based on 'splitterless' architectures," said Russ Apfel, Legerity's chief technology officer. "We chose to license PalmDSPCore technology for its high performance, as well as for its instruction set, which contains instructions that are ideal for integrating control functions that are generally handled by microprocessors."

"We welcome Legerity to our PalmDSPCore family of licensees and are excited that our DSP cores will provide our partner with enabling technology for a new generation of IC solutions, optimized for high-performance xDSL modem products," said Bat-Sheva Ovadia, DSP Group's VP of marketing and business development. "Legerity has the engineering talent, systems knowledge, and intellectual property to make groundbreaking contributions to the xDSL industry, and we are pleased that the PalmDSPCore technology is part of the equation."

PalmDSPCore is the fourth generation of DSP Group's licensable cores in the company's SmartCores™ family. PalmDSPCore is designed for applications, such as broadband modems, voice over IP (VoIP) gateways, high-end telecommunications, wireless communications, multimedia, hi-fi audio implementations, and consumer electronics, that require extremely high data throughput. PalmDSPCore is a high-performance, low-power consumption, and dual MAC parallel architecture. It has three instruction-set categories of single, parallel, and multi-parallel instructions, which provide leading-edge DSP performance, such as two cycles for complex FFT butterfly. It supports both SIMD (Single Instruction Multiple Data) and MIMD (Multiple Instruction Multiple Data) style instructions, with variable instruction widths (16/32 bit) in a single cycle. This unique instruction set combination achieves optimal performance with maximum code efficiency. The PalmDSPCore is fully synthesizable ("soft core"), process-independent, and easy to implement using any ASIC library.

About Legerity, Inc.

Legerity, Inc., is a leading innovator and supplier of communication ICs (integrated circuits) for data and voice communications. The company's extensive intellectual property portfolio includes more than 600 silicon and system-level patents. Its silicon solutions enhance the performance, accelerate time-to-market, and lower the system cost of communications equipment supplier products. Legerity combines process, design, systems architecture, and a complete set of software and hardware support tools with unparalleled corporate and worldwide field applications support to ensure a smoother design experience. Headquartered in Austin, Texas, with offices in Europe and Asia, Legerity is focused on the convergence of data and voice by innovating products that accelerate the widespread availability of high-speed communications. The company was formerly AMD's Communication Solutions & Products (NYSE:AMD). Visit Legerity on the Web at www.legerity.com.

About DSP Group, Inc.

DSP Group, Inc., is a global leader in the development and marketing of high-performance, cost-effective, licensable digital signal processing cores. The company's family of DSP cores provides ideal solutions for low-power cost-driven applications such as cellular, broadband communication, VoIP, multimedia, advanced telecommunication systems, disk drive controllers and many other types of embedded control applications. By combining its DSP core technologies with its proprietary, advanced speech-processing algorithms, DSP Group also delivers a wide range of enabling, application-specific ICs for full-featured integrated telephony products and digital cordless applications. DSP Group, Inc. maintains an international presence with offices located around the globe. Additional information is available on the World Wide Web at: http://www.dspg.com.

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