

Algorithms for **Surround, Bass Boost and Speech Recognition** now available from CSR's eXtension partners

BlueCore5-Multimedia, CSR's latest family of single-chip ICs for 2.4GHz Bluetooth systems with integrated DSP, offers a unique possibility to diversify your Bluetooth product. The open DSP architecture makes it possible to use enhancement algorithms ranging from voice recognition and speech synthesis to music processing, echo/noise cancellation and compressing audio.

CSR have created the eXtension program, an open DSP developers program for 3rd party companies that have adapted and optimized their algorithms for the BlueCore5-Multimedia DSP.



TDK introduces a **WLAN Module** using CSR Mobile **WLAN** technology

TDK's IEEE 802.11b/g WLAN Module is Dual Mode, supports 802.11b/g, comes in a small 9.8 x 9.6 x 1.5mm package and has drivers available for both Windows CE and Linux. These drivers may be ported to other targets if needed.

The module have both SDIO and SPI interface and Bluetooth Coexistence connections. The module is suitable for surface mount installation and requires few external components, including antenna for operation.

Operating Temperature: -20 - +85°C, Supply Voltage: 1.5V and 3.3V, Sleep mode: 160µW (typ)



Summit introduces **SMM15X**, a high accuracy **voltage/ current supervisor** with **margining** built in

The SMM151/152 are highly accurate power supply voltage/current supervisors and monitors with provisions for voltage margining of the monitored supply. The parts include an internal voltage reference to accurately monitor and margin the supply to within $\pm 1\%$. The SMM151/152 have the capability to margin over a wide range from 0.3V to VDD, the margin levels are set using the I2C serial bus. When the SMM151/152 are not margining, the TRIM output pin is held in a high impedance state allowing the converter to operate at its nominal set point. Two general purpose input pins are provided for sensing under or over-voltage conditions.



CSR strikes again, new device with **Small Package, Low Power and Great Audio!**

BlueCore™6 ROM implements Bluetooth® 2.1+EDR and introduces a new baseband CODEC option called AuriStream, which provides a giant leap forward in voice quality and power reduction. It also includes special features for reducing standby power consumption with up to 86%, and

offers an improved radio link budget. BC6 ROM comes in either a super small CSP package, or most interesting is the small, but still very easy to handle and mount 6x6 mm QFN package.



Luminary Micro releases the **Serial to Ethernet Module**

The MDL-S2E ships as a ready-for-production module with the following features:

- 10/100 Mbit Ethernet port
- Traffic and link indicators
- Two serial ports, configured as DCE, include RTS/CTS for flow control
- RS-232 level available with UART0 with communication up to 230,400 baud
- CMOS/TTL levels available with UART1 with communication up to 1 Mbaud
- Program firmware updates over Ethernet
- Module software
- IP configuration with static IP address or DHCP



LUMINARY MICRO

Wintegra introduces **WinPath-Lite**

Wintegra has broadened its portfolio of high-performance access processors with the WinPath-Lite family.

This family is fully software compatible with other members of the WinPath family enabling Wintegra customers to effectively scale their current designs to service even broader target markets.

The WinPath-Lite family continues with the market leading

blend of simultaneous support of Ethernet, TDM and ATM. Direct connectivity is included for memory devices, Ethernet and DSL PHYs, Framers, as well as ATM connectivity.

On-board control processing is provided via a MIPS 24K core. High volume pricing begins in the \$30s.



SiLabs unveils **EZRadio & EZRadio Pro**, a range of **ISM –band receivers, transmitters and transceivers**

The Silicon Labs EZRadio family of fully integrated, low power, low data rate, low cost ICs are designed to meet the needs of OEMs developing wireless applications for both consumer and industrial monitoring and control. EZRadio products support proprietary and de facto standard point-to-point, star, and mesh networks. The family of devices features Automatic Antenna Tuning, Direct Loop/IFA Antenna Support, SPI Interface, 315, 434, 868 & 915 MHz Band Support, Fast-settling, programmable, high-resolution PLL synthesizer, Fast frequency-hopping capability, High bit rate (up to 256 kbps) and Direct loop antenna drive. The fact that the devices also requires no alignment in production and a very small BOM adds to the ease of use.



Frost & Sullivan Awards Vitesse Semiconductor for EcoEthernet™

Based on its recent analysis of the Ethernet integrated circuits (ICs) market, Frost & Sullivan recognizes Vitesse Semiconductor Corporation with the 2008 Global Frost & Sullivan Green Excellence of the Year Award. Vitesse's development of the EcoEthernet™ solutions is a significant first step toward reducing worldwide network switching power consumption.

Vitesse has developed two advanced, innovative green features,

that are known industry-wide as ActiPHY™ and PerfectReach™, to provide greater Ethernet energy efficiency.

ActiPHY™ helps save power by detecting inactive Ethernet ports on network devices and automatically powering them down or placing them in sleep mode. The compatible ActiPHY™ implementation can reduce port power consumption by more than 400 mW.

Vitesse's PerfectReach™, an intelligent algorithm, adjusts power to the required levels after approximately determining the cable length by measuring link pulse degradation.

Vitesse's Ethernet IC product families include the SimpliPHY™ Gigabit Ethernet Copper PHY devices, the SparX™ Gigabit Ethernet switches family of unmanaged and smart web-managed switches and lastly the G-RocX™ Gigabit Ethernet Router systems-on-chips (SOCs) family.



VITESSE

Mindspeed and ARM deliver dual-core Comcerto 100 processors for demanding CPE applications

Mindspeed have released the Comcerto 100 processor family enabling high performance broadband gateways for power-sensitive access networks. The Comcerto 100 provides the leading

performance-power-cost profile in its class, delivering 2 Gbps at 1.7W power with two channels of VoIP. The integrated system-on-chip (SoC) features two ARM1136J-S processors, offering broadband

gateway manufacturers a single-chip solution with an attractive bill-of-materials cost.

MINDSPEED
BUILD IT FIRST™

New Low Voltage Dual DC/Stepper Motor Driver for Portable Battery Powered Applications from Allegro

Allegro introduces a new low voltage dual full bridge motor driver designed to drive one bipolar stepper motor or two DC motors. This new device is part of Allegro's low voltage motor driver series targeted at portable battery-powered applications. Each output channel in

this new device is rated at 1 A with an operating supply voltage range of 2.5 V to 9 V. Key features include fixed off time PWM current control, low on resistance DMOS outputs and a peak current flag output.



Automotive Non-volatile, Flash-Based FPGA Family

The LA-LatticeXP2 automotive, AEC-Q100 qualified FPGA family with Flash boot memory and FPGA blocks integrated into a single die, are uniquely suited for instant-on automotive systems, and can be reprogrammed 'in-system' for easy feature upgrades.

Reliability-conscious customers will appreciate unique LA-LatticeXP2 features such as "golden configuration" boot redundancy and continuous SRAM scanning and recovery. To support increasingly common DSP applications, sysDSP™ blocks provide hardwired, high-performance pipelined multiply and accumulate functions.

The LA-LatticeXP2 family join Lattice's four previously announced automotive LA versions of the MachXO™ Crossover Programmable Logic Devices, ispPAC® - POWER1014/A Programmable Power Manager Devices, ispMACH® 4000V and ispMACH 4000Z CPLDs.



Allegro/Sanken

Allegros product portfolio contains halleffekt sensors, motordrivers, latched drivers and general drivers. Allegros products are distributed by Insight Memec



CSR

CSR designs and manufactures single-chip devices for RF communication. Most known for their Bluetooth offering CSR are today also working on solutions for GPS and WLAN.



Ember

Ember manufactures transceiver IC's and protocol stacks for the ZigBee standard, based on IEEE 802.15.4 ZigBee is a technology for wireless communication in control applications where high reliability is required.



GE Sensing

Silicon based pressure sensors for air, gas and liquid. The sensor element is the same in all sensors, what differs is how they package it depending on application and what media it will be in contact with. Everything from SO-8 package for simple barometric applications to sensors in stainless steel housing.



Lattice Semiconductor

Lattice manufactures programmable logic devices starting from small, very low power CPLD devices all the way to high density SRAM based platform FPGA's. Lattice is also the key manufacturer of Flash based FPGA devices that don't need an external programming source. Lattice also has some special mixed signal programmable devices for Clock & Power Management applications.



Luminary Micro

Designs, markets and sells ARM Cortex-M3-based microcontrollers (MCUs). As ARM's lead partner for the Cortex-M3 processor they recently delivered Stellaris™, the world's first silicon implementation of the Cortex-M3 processor.

The Cortex-M3 is developed to bring 32-bit power to the 8 and 16-bit micro world! Now with integrated CAN and Ethernet 10/100 MAC + PHY. They also have hardware support for IEEE1588.



Mindspeed

Mindspeed Technologies designs, develops and sells semiconductor solutions for communications applications such as converged VoIP and data, and broadband optical transmission in enterprise, access, metropolitan and wide area networks. The company's three key product families include high-performance analog transmission and switching solutions, multiservice access products designed to support voice and data services across wireline and wireless networks, and WAN communications solutions including T/E carrier, network processing and traffic management devices.



QuickLogic

QuickLogic offers innovative low power platforms for the portable/handheld markets. QuickLogic's Customer Specific Standard Products or CSSPs, combines the proven functionality of ASSP such as USB 2.0 OTG, PCI, SDI, with the fully customer-specific functionality of ASICs.



Silicon Laboratories

Silicon Laboratories is an industry leader in the innovation of high-performance, analog-intensive mixed signal products.

The diverse product portfolio includes microcontrollers, timing products, power over ethernet products broadcast audio/video products, embedded modems and SLICs



Stretch

By integrating configurable logic into the datapath of a high-performance processor, Stretch Inc. has developed a new kind of CPU that combines a fixed instruction set and a way to create highly optimized custom instructions in hardware inside of the core of the processor itself.



Summit

Summit Microelectronics is the leading supplier of analog power management solutions to the embedded electronics market. Using their programmable technology you can solve all your power issues in growing thru generations of products with different supply powers.



TDK

TDK develops and manufacture WLAN Modules (802.11b/g) based on CSR's chipset. The modules supplies a complete RF WLAN implementation for use in an embedded application. Drivers are available for Linux and Windows CE and these may be ported to other target systems. The modules are suitable for surface mount installation and requires few external components, including antenna for operation.



Vitesse

Vitesse combines design of high speed IC's with volume production to supply the market with some of the worlds fastest communication devices. Furthermore, Vitesse offers one of strongest Ethernet family of products in the market.

The product portfolio includes SONET/SDH, ATM, IP, Gigabit Ethernet, optoelectronic devices and solutions for backplane communication.



Wintegra

Wintegra produces the WinPath™ access packet processor family. WinPath™ supports the switching/interworking of ATM, IP, Gigabit Ethernet and/or TDM traffic. With 18 resident protocols for a ready-to-use solution with rich functionality, WinPath™ offers full programming flexibility for customized applications. Typical applications are base stations, media gateways, access multiplexors, service switches and enterprise routers.