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Welcome to our May edition of Braemac Product News

Visit Braemac/Braetec at Cebit Australia 2008 (20 – 22 May) Sydney Darling Harbour



We invite you as our guest to Cebit. For your free exhibition entry pass to Cebit 2008 (\$65 usual entry), Braemac are giving you the ability to register at <http://www.cebit.com.au> and enter the promo code: exdmca08 to gain free access.

We have an exciting stand, exhibiting hardware from Wavecom modules, single board computers and thermal imaging products.

So come and visit us at Cebit 2008. Those of you who visit us, at Cebit 2008, don't forget to drop in your business card for your chance to win

a portable satellite navigation device.

For further information. [Click Here](#)

New Hitachi Display: Strong optical performance, VGA resolution and low power consumption in a compact form factor.



Hitachi Display Products Group today launches the TX14D14VM1BAB that brings VGA resolution and a 4 LED backlight to the existing range of compact 5.7 inch LCD TFT displays. The 640(w) x 480(h) VGA res display delivers 262,000 colours while a contrast ratio of 350:1 and typical brightness of 350cd/m2 ensi bright images for all lighting conditions and environments.

"With the introduction of the TX14D14VM1BAB customers now have a compact 5.7 inch VGA display wit backlight to deliver crisp, bright images in Windows CE environments and other high resolution applicati taking advantage of the benefits of an LED backlight such as reduced power consumption and dispensin need for a high voltage inverter, the TX14D14VM1BAB also delivers consistently high levels of optical performance," says Mark Stephenson, Product Manager for Hitachi Display Products Group. "This introdi further demonstrates the commitment of Hitachi to deliver a choice of high quality, high performance di meet the evolving needs and design criteria of industrial customers."

With module dimensions of (W)131.0mm x (H)102.2mm x (D)10.9mm the TX14D14VM1BAB form facto compatible with the other compact displays in the 5.7 inch range and features an active matrix, transmi LCD display. A touchpanel version of the display, the TX14D14VM1BPB, is also available, making this pr for a huge range of embedded industrial solutions from handheld data loggers to human-machine interf.

For further information. [Click Here.](#)

PI Showcases Products for LED Lighting



Power Integration introduces a broad range of offline switcher ICs are being applied to the rapidly expan Lighting market :

- TOPSwitch-GX drives this 75 W, single stage Flyback power supply with PFC for LED ballasts. It n EN55015 B conducted EMI limits with >10 dBmV margin, and has high efficiency (>85%) across input range. [Read DI-136.](#)
- This 14 W, CV/CC LED driver power supply uses TinySwitch-III to achieve efficiency that meets E 2008/ENERGY STAR 2.0 requirements - active-mode efficiency of 86% (vs. 79.6% requirement), load input power <250 mW @ 265 VAC (vs. 300 mW requirement). [Read DI-173.](#)
- LinkSwitch-TN is used in this LED lighting/bulb retrofit. It features a 3 W, non-isolated constant c driver in an extremely small form factor (it fits within a GU10 lamp base). [Read RDR-131.](#)
- Another solution using LinkSwitch-TN implements a high efficiency constant current buck convert Lighting. It features a compact, lightweight, inexpensive, low part count design, simple single ind transformer needed), and very high efficiency (>90%) throughout its operating range. [Read DI-1](#)

In addition to TOPSwitch-GX, and TinySwitch-III, our LinkSwitch-TN family of non-isolated offline switch tiny SO-8 packaging helps designers deliver energy-efficient LED alternatives to power-hungry incandes View our [LED Lighting Page](#) to see more solutions.

Austriamicrosystems' announces dual simultaneous sampling 1MSPS 12-bit ADC.

The 12-bit AS1545 offers two independent 1MSPS ADCs, each with 6 input channels, combined with low power consumption

austriamicrosystems (SWX: AMS), a leading global designer and manufacturer of high performance analog ICs for communications, industrial, medical and automotive applications, has introduced the AS1545, a dual high-speed successive-approximation ADC with low power consumption, excellent DC performance and outstanding dynamic specifications, expanding austriamicrosystems high-speed ADC portfolio.



The AS1545 offers 12-bit resolution on each of the two ADCs and uses advanced design techniques to achieve low power dissipation at high throughput rates. At a conversion speed of 1MSPS and including the internal 2.5V reference, the AS1545 consumes 5.5mA. In full power-down mode the supply current drops to less than 1µA.

Two complete and independent ADC channels allow simultaneous sampling and conversion of two channels. The 12 input channels are software configurable allowing each ADC to offer six single-ended channels or three pseudo differential pairs, as programmed. The conversion result of both ADCs is simultaneously available on two separate data lines or in succession on one data line if only one serial port is available.

"High speed dual converters like the AS1545 are ideal for motor control applications," said Walter Mosh, Marketing Director Standard Linear at austriamicrosystems. "The 1MSPS dual ADC channels allow the simultaneous measurement of the difference of inputs. Additionally, the AS1545 offers a step-up/down counter, counting revolutions as well as a direction bit and information on the quadrature signal phases."

AS1545 operates from a single 2.7 to 5.25 V supply and contains a Vdrive (interface drive voltage) function that enables the serial interface to connect directly to either 3 or 5 V processor systems independent of the supply voltage. The ADC can be interfaced via a high speed SPI/QSPI/Microwire or DSP interface.

The AS1545 offers a rail to rail analog input range and can be selected to be a 0 V to VREF (or 2 × VREF) or either straight binary or two's complement output coding. The common mode input range of the analog input goes from rail to rail. The internal 2.5V reference can be overdriven when an external reference is preferred.

For more information: [Click Here.](#)

New STR91xFA family boosts embedded Flash and saves part count in connected applications.

STMicroelectronics, a world leader in microcontrollers, has increased the on-chip Flash capacity of its [STR91xFA](#) ARM966E-S based MCU family by introducing 1.1 Mbyte and 2.1 Mbyte variants, delivering higher memory density than any other ARM9, or ARM7-TDMI, based standard MCU currently available. The new devices are pin- and function compatible with existing 288 Kbyte and 544 Kbyte versions in LQFP-80, LQFP-128 and BGA-144 packages, allowing engineers to scale designs easily without incurring expensive changes to their circuit boards.



As the first family to combine the ARM966E-S CPU core with Ethernet connectivity and large memory capacity, including 96 Kbytes of SRAM, the STR91xFA series now further extends the performance of networked embedded systems such as web servers, printer controllers and other applications that require large code or data storage. These applications also include Point-of-Sale terminals and peripherals, factory-automation equipment, serial-protocol gateways, security and surveillance equipment and building-automation systems.

The 1.1 Mbyte STR91xFAx46 and 2.1 Mbyte STR91xFAx47 enable engineers to build more complex embedded functionality using on-chip memory, thereby adding security against piracy, saving board space as well as materials costs. With integrated Ethernet, USB, and CAN interfaces, as well as a 10-bit ADC, multiple timers up to 80 5V-tolerant general-purpose I/Os, the STR910xFA delivers a single-chip solution capable of transferring embedded-control applications into low-cost nodes on a local network, or on the Internet.

Designers using the new STR91x devices in Ethernet-based solutions can also take advantage of the royalty-free TCP/IP stack recently announced by ST, which accelerates application development while occupying a footprint less than 12 Kbyte of memory.

The ARM966E-S™ CPU core at the heart of the STR91x family achieves 96 MIPS peak performance at 90 MHz, introducing several performance enhancements over the ARM7TDMI architecture. These include separate busses to high-speed burst Flash memory and zero-latency SRAM, each attached efficiently to the core via a highly optimized Tightly-Coupled Memory (TCM) interface for rapid access. In addition, the ARM966E-S supports single-cycle Digital Signal Processing (DSP) instructions, enabling the STR910F to satisfy both signal-processing requirements and delivering clear advantages over traditional solutions based on separate signal and control processors.

For further information. [Click Here.](#)

About Braemac

Braemac is Australia's largest electronic component distributor with offices throughout Australia, New Zealand, USA, Singapore, Hong Kong and the UK. Our product offer includes some of the world's most prestigious suppliers including Atmel, Altera, Hitachi (Renesas), STMicroelectronics, Cirrus Logic, Marvell and Wavecom which allows our customers to choose from a wide selection of quality, well recognised components. Visit Braemac Website



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For further information, product data sheets and pricing, please contact your local Braemac sales representative or email info@braemac.com.au

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