



**KAL - Large IP Cores:**

CPU Cores:

- **8 bit - 8051**
- 8 bit- HC68HC11
- 8 bit - PIC Processor
- 8 bit – Z80
- 16 bit – D6800
- **DSP – MSP430**
- 32 bit - ARM 9xx/11xx

Memory Controllers:

- **SD/SDIO 2.0/3.0 Controller**
- SDRAM Controller
- **DDR/DDR2/DDR3 SDRAM Controller**
- NAND Flash Controller
- Flash/EEPROM/SRAM Controller
- PCMCIA/CompactFlash Host Adapter
- PCMCIA/CompactFlash Slave Controller

Clock Synchronization:

- IEEE 1588 Slave
- IEEE 1588 Master
- IEEE 1588 Master/Slave
- IEEE 1588 PTP Stack
- IEEE 1588 L2/L3 Solution

Peripherals:

- Floating Point Unit
- I2C Master/Slave
- SPI Master/Slave

PREMA our partner for analog and mixed-signal ASIC services and off the shelf ICs will present at the electronica 2010. Come and visit PREMA with us!

## **PREMA ICs at the electronica 2010**

**electronica in Munich from 9th to 12th November 2010.  
Hall A4, Booth A4-406.**

PREMA Semiconductor is specialized in state of the art designs and cost effective production for analog and mixed-signal ASICs. Custom-specific solutions (ASICs) as well as standard ICs are offered for numerous applications. The complete range of standard ICs will be presented, especially LED drivers are enjoying increasing popularity and attention in the markets. These products are trendsetters for environmentally friendly and energy-saving applications.

ASICs allow efficient implementation of the customer's specific requirements. Customized ICs profit from multiple benefits, such as: component reduction, secured supply for many years and the prevention of product piracy. The inclusion of sensors and high-voltage applications up to 80V provides solutions meeting a variety of complex requirements for customers. Parts tested in line with agreed procedures lead to quality improvements. At the electronica, sample ASIC applications as well as our standard IC portfolio will be presented. Our team looks forward to your visit; we shall be glad to assist.

The process utilized for in-house IC manufacturing ("all in one") has been enhanced with new features. Managing director Dr. Hartmut Gruetzediek states: "A BCD process cannot be made more simple and at the same time more cost efficient for our customers. Almost all components of its application can be integrated into an ASIC with our process. Combined with high-voltage options and sensors almost all essential needs of the market demands are

- CAN bus
- LIN bus
- Programmable Peripheral Interface
- UART, UART with FIFO
- PWM
- Timer 8254

- Programmable Timer
- Interrupt Controller
- Ethernet Controller 10/100/1000 BaseT

- DMA Controller
- USB 1.0/2.0 Host/Slave
- On Chip Bus Analyzer

PCI Bus Controllers and Peripherals:

- PCI Express
- PCI-X Host Bridge Master/Target
- PCI Host Bridge Master/Target
- PCI-PCI Bridge
- PCI-ISA Bridge
- PCI Bus Arbiter

Encryption:

- AES 128bit/256bit
- ECC

AHB/APB Peripherals:

- AHB Bus Master/Slave
- APB Bus Master/Slave
- AHB/AXI DMA Controller
- AXI Bus Master/Slave

MIPS CPU Interface:

- MIPS - SysAD Bus Slave
- MIPS - SysAD Bus to PCI Host bridge

covered."

**General information about PREMA Semiconductor GmbH, Mainz - Germany**

PREMA offers standard ICs and solutions for analog and mixed-signal ASICs

- with supply voltages from 0.9V up to 80V
- for the ultra low power range up to medium power
- development, design, production with in-house fab and test, all in one hand

ASICs and standard ICs designed and produced by PREMA can be found in

- LED lamps and torches
- low noise audio electronics
- energy management for consumer goods and household devices
- automotive applications
- motion detectors and bar code scanners

- ambient light sensors and speed control modules

You will find more information about us and PREMA services at the website: [www.prema.com](http://www.prema.com).

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Untill the next eNews,

Thanks yu for your attenstion.

KAL

- MIPS - EC interface to SDRAM Controller
- MIPS - EC Interface to PCI Host Bridge
- MIPS - EC Interface Bus Slave

PowerPC CPU Interface:

- Power PC Bus Master
- PowerPC to PCI Host bridge
- PowerPC Bus Arbiter
- PowerPC Bus Slave

ARC CPU Interface:

- ARC - Peripheral Controller for ARctangent
- ARC – ARctangent to PCI host Bridge

Analog IP Cores:

- Analog IP cores (ADC, DAC, PLL,) are available – Please contact us.
- We are expert in custom analog IP

[Contact us for data sheet](#)

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