

Product Information

EFT / POS & PINPAD Appliance

Advanced 32bit EISC Microcontroller

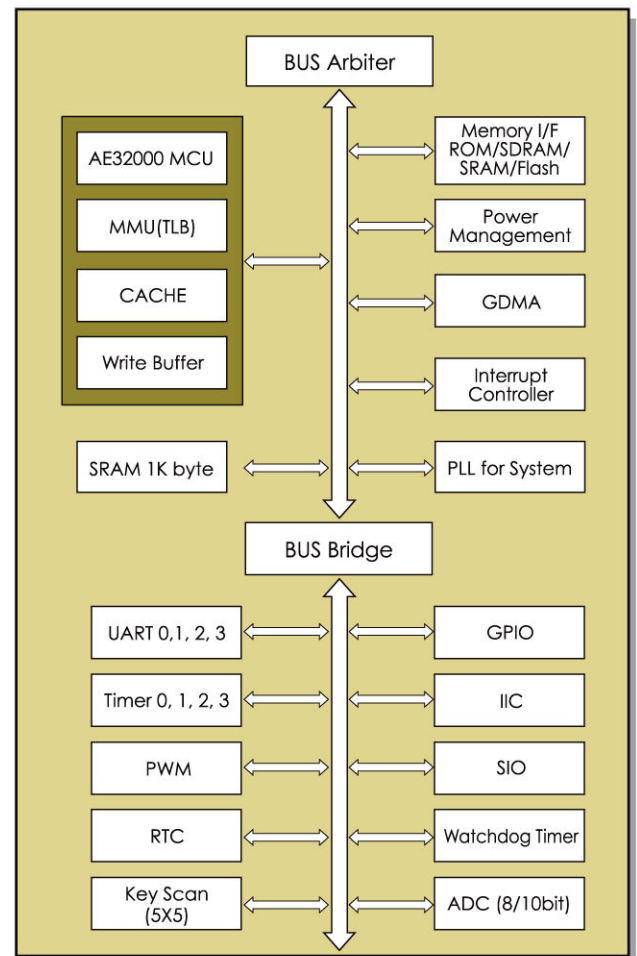
Description

ADC's eos{adc32A312} 32bit EISC microcontroller is designed to provide a cost effective and high performance microcontroller solution as a EFT/POS & Pinpad appliance and general application. The eos integrated microprocessor combines a 32bit Advanced EISC (AE32000) processor core with several peripheral functions such as Timer, Serial Interface, Flash Memory Controller etc.

The On-chip Cache SRAM provides one-cycle access to code and data to speed program execution. AE32000 core family is a high performance range of 32bit EISC CPU core, with excellent code density from the 16bit instruction set, low power consumption for use in many type of applications.

Features

- Built in 32bit CPU, Cache and MMU (TLB)
 - Maximum 50Mhz CPU Operation
 - High Performance EISC Core AE32000
 - 2 Way Set Associative Harvard Cache with 2K byte Instruction and 2K byte Data Cache
 - LRU (Least Recently Used) Replacement Algorithm
 - Write Through / Write Back cache operation
 - Write Buffer has 4 word data buffer
 - Supports MMU with 128 entry, 4 way set associative TLB
 - Supports Correcting misalignment by software or hardware
 - Supports Little / Big Endian
- Memory Management
 - 32M byte Address Space per each bank
 - Support 8 Memory banks.
 - Supports External Wait Signal to Expand the bus cycle
 - Supports Self-refresh mode in SDRAM for Power down
- Clock Power Management
 - On-chip PLL makes the clock for operating MCU
 - Clock and be fed selectively to each function block by software
 - Supports Power Down Mode
 - Normal mode : Normal operation mode
 - Slow mode : Low frequency clock without PLL





We build a new
millenium technology...

eOS (adc32A312)

Product Information

EFT / POS & PINPAD Apliance

Advanced 32bit EISC Microcontroller

Features

- Peripheral functions
 - On Chip Clock gernerator with PLL
 - Flash memory controller (NAND Type & Auto Loading)
 - General DMA
 - 29 Ch. Priority Interrupt controllers with programmable priority set and rotation
 - 10 External Interrupt
 - 4 Ch. Timer
 - Watch Dog Timer
 - 4 Ch. UART with 16 X 8bit FIFO
 - 64 GPIO (Peripheral Input Output)
 - IIC Controller
 - SIO (Synchronous IO)
 - Real Time Clock
 - PWM
 - 25 Key Scan
 - 4 input 8/10bit ADC
- Embedded PLL
- Built in Boot SRAM (1K byte) for Boot Loader
- Test Method
 - Support JTAG Boundary Scan
- Process
 - 0.35 μ m CMOS VLSI
 - Operating Voltage 3.3V(+/- 10%)
 - 144 Pin LQFP package

Application Areas

EFT/POS Terminal, Pinpad Termial, General Purpose MCU

Available Documents

Data Book, Software Development Guide

For More Information Contact:

advanced digital chips, inc., 14th Floor, Instopia Bldg., 467-23, Dogok-Dong, Gangnam-Gu, Seoul, 135-270, Korea
Tel : 82-2-2107-5870 Fax : 82-2-571-4890 <http://www.adc.co.kr> E-mail : sales1@adc.co.kr

