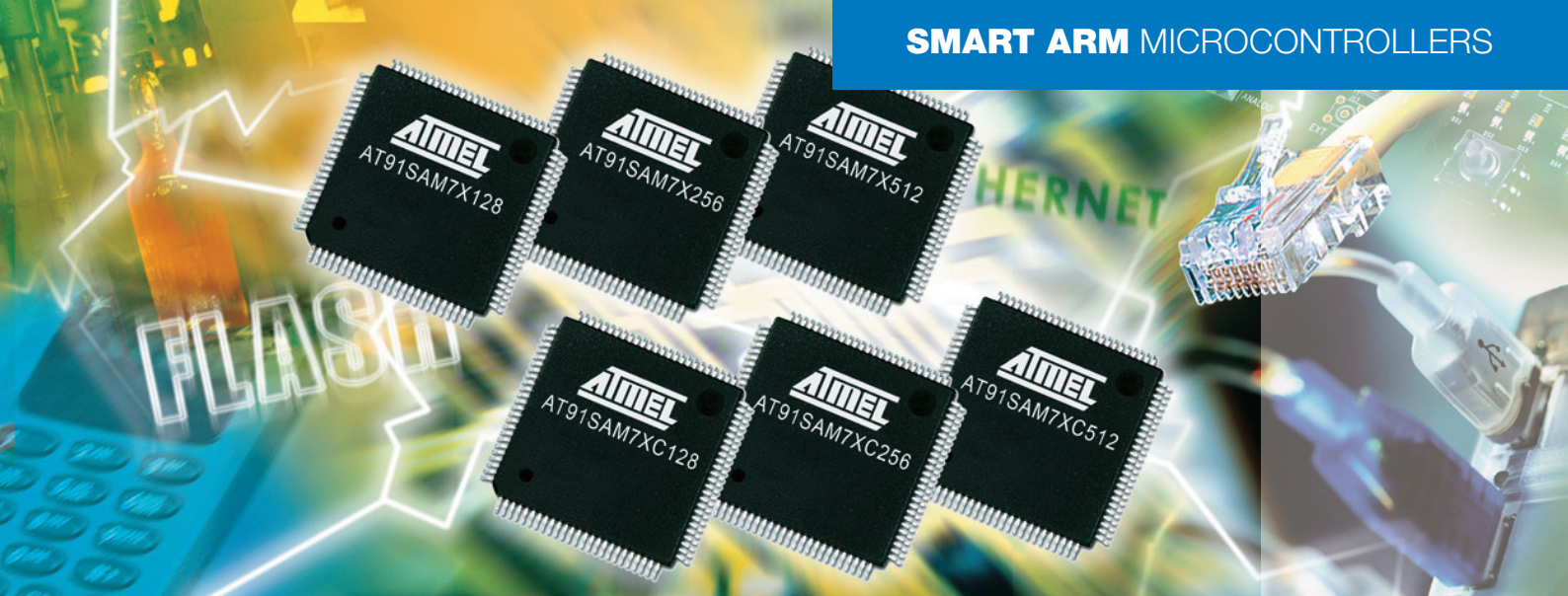
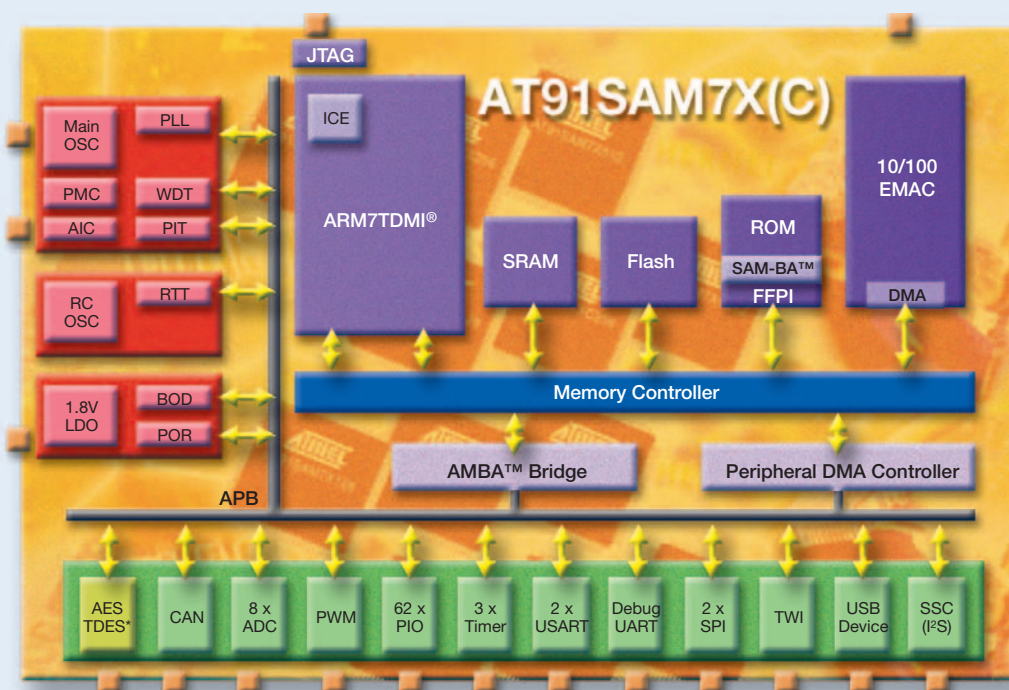




➔ AT91SAM7X and AT91SAM7XC ARM Microcontrollers For Real-time Ethernet Networking

Atmel's AT91SAM7X and AT91SAM7XC 32-bit microcontrollers are designed for extensively networked, real-time embedded control applications that require USB, Ethernet and CAN. Based on the industry-standard ARM7TDMI® core, the AT91SAM7X(C) boosts performance via deterministic processing, ensuring high-speed communication with low CPU overhead. For applications requiring maximum security for streaming content, the AT91SAM7XC integrates crypto co-processors.

- 55 MHz, 50 MIPS
- 25 ns internal Flash with sector lock capabilities and hardware chip lock
- Single-cycle access SRAM at maximum operating frequency
- USB (Full speed 2.0), configurable Ethernet MAC, CAN Controller
- SPIs, USARTs, SSC (I²S), TWI, 10-bit A/D converter
- 11-channel DMA engine between peripherals and on-chip memory (PDC)
- System Controller includes Advanced Interrupt Controller, Brownout Detector, Power-On-Reset, Watchdog Timer, Real Time Timer, RC Oscillator
- AT91SAM7XC integrates AES and TDES with encryption rates of up to 80 Mbps
- Green 100-lead LQFP (16x16x1.6 mm) and 100-ball TFBGA (9x9x1.1 mm) packaging options
- Atmel and industry leading third-party development tools and low-priced evaluation boards



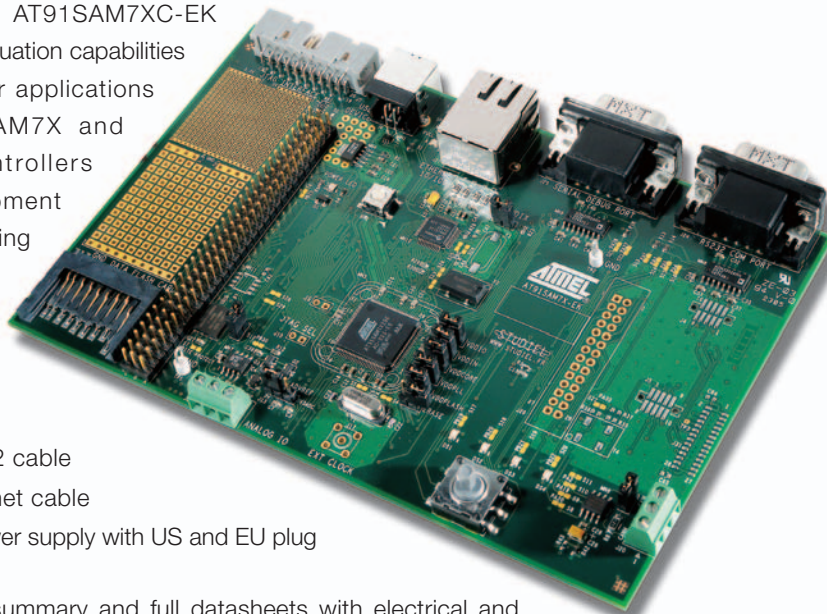
*AES/TDES available on AT91SAM7XC only.

➤ AT91SAM7X and AT91SAM7XC ARM Microcontrollers

For Real-time Ethernet Networking

The AT91SAM7X-EK and AT91SAM7XC-EK development kits enable evaluation capabilities and code development for applications running on the AT91SAM7X and AT91SAM7XC microcontrollers respectively. The development kit package contains following items:

- an AT91SAM7X or AT91SAM7XC Evaluation Board
- one A/B-type USB cable
- one crossed serial RS232 cable
- one RJ45 crossed Ethernet cable
- universal input AC/DC power supply with US and EU plug adapter
- a DVD-ROM containing summary and full datasheets with electrical and mechanical characteristics, application notes and getting started documents for all AT91 microcontrollers. An AT91 software package with C and Assembly listings is also provided. All this allows a user to begin evaluating an AT91 ARM® Thumb® 32-bit microcontroller quickly and easily.
- more information on tools and software is available on:
http://www.atmel.com/dyn/products/tools.asp?family_id=605



Headquarters
Atmel Corporation
 2325 Orchard Parkway
 San Jose, CA 95131, USA
 Tel.: (1)408 441-0311
 Fax: (1)408 487-2600

International
Atmel Asia
 Room 1219
 Chinachem Golden Plaza
 77 Mody Road Tsimshatsui
 East Kowloon
 Hong Kong
 Tel.: (852) 2721-9778
 Fax: (852) 2722-1369

Atmel Europe
 Le Krebs
 8, rue Jean-Pierre Timbaud
 BP 309
 78054 Saint-Quentin-en-Yvelines
 Cedex France
 Tel.: (33) 1-30-60-70-00
 Fax: (33) 1-30-60-71-11

Atmel Japan
 9F, Tonetsu Shinkawa Bldg.
 1-24-8 Shinkawa
 Chuo-ku, Tokyo 104-0033
 Japan
 Tel.: (81) 3-3523-3551
 Fax: (81) 3-3523-7581

Product Contact
 Zone Industrielle
 13106 Rousset Cedex
 France
 Tel.: (33) 442-53-6000
 Fax: (33) 442-53-6001

Literature Requests
www.atmel.com/literature

Web Site
www.atmel.com



© 2007 Atmel Corporation.
 All rights reserved.

Atmel®, logo and combinations thereof, Everywhere You Are® and others are registered trademarks or trademarks of Atmel Corporation or its subsidiaries. ARM®, the ARM Powered® logo, ARM7TDMI®, Thumb® and others are the registered trademarks, AMBA™ and others are trademarks of ARM Ltd. Other terms and product names may be the trademarks of others.

Rev.: 6262B-ATARM-04/07/5M



Open Source Software Offering	Commercial Software Offering		
FreeRTOS™	µC/OS-II	EmbOS	RTL-ARM
NUT/OS	Tiny+	Nucleus	MQX™ RTOS
eCOS	ThreadX®	AMX™ RTOS	RTXC™
	eCosPro™	smx®	Salvo™
	IAR PowerPac™		

Product	Flash	SRAM	Package	Ordering Code	Green Compliance
AT91SAM7X512	512 KB	128 KB	LQFP100	AT91SAM7X512-AU	Yes
			BGA100	AT91SAM7X512-CU	Yes
AT91SAM7XC512	512 KB	128 KB	LQFP100	AT91SAM7XC512-AU ⁽¹⁾	Yes
			BGA100	AT91SAM7XC512-CU ⁽¹⁾	Yes
AT91SAM7X256	256 KB	64 KB	LQFP100	AT91SAM7X256-AU	Yes
			BGA100	AT91SAM7X256-CU	Yes
AT91SAM7XC256	256 KB	64 KB	LQFP100	AT91SAM7XC256-AU ⁽¹⁾	Yes
			BGA100	AT91SAM7XC256-CU ⁽¹⁾	Yes
AT91SAM7X128	128 KB	32 KB	LQFP100	AT91SAM7X128-AU	Yes
			BGA100	AT91SAM7X128-CU	Yes
AT91SAM7XC128	128 KB	32 KB	LQFP100	AT91SAM7XC128-AU ⁽¹⁾	Yes
			BGA100	AT91SAM7XC128-CU ⁽¹⁾	Yes

(1) Contains crypto hardware. Export restrictions may apply.

Disclaimer: The information in this document is provided in connection with Atmel products. No license, express or implied, by estoppel or otherwise, to any intellectual property right is granted by this document or in connection with the sale of Atmel products. EXCEPT AS SET FORTH IN ATMEL'S TERMS AND CONDITIONS OF SALES LOCATED ON ATMEL'S WEB SITE, ATMEL ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS, IMPLIED OR STATUTORY WARRANTY RELATING TO ITS PRODUCTS INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT SHALL ATMEL BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS AND PROFITS, BUSINESS INTERRUPTION, OR LOSS OF INFORMATION) ARISING OUT OF THE USE OR INABILITY TO USE THIS DOCUMENT, EVEN IF ATMEL HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Atmel makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and products descriptions at any time without notice. Atmel does not make any commitment to update the information contained herein. Unless specifically provided otherwise, Atmel products are not suitable for, and shall not be used in, automotive applications. Atmel's products are not intended, authorized, or warranted for use as components in applications intended to support or sustain life.