

AT98SC FAMILYSECURE EMBEDDED SYSTEMS

Security Modules

Atmel® has developed a new family of hardware security modules to prevent high-tech goods counterfeiting, multimedia contents copying and identity theft. The proven cryptographic protocols implemented in Atmel's AT98SC products protect people privacy and prevent IPs cloning thanks to multi-factor authentication and data secure storage.

Turnkey Solution

The AT98SC family is a complete and easy-to-use solution offering low-cost, ease of integration, higher security and proven technology.

Key Features

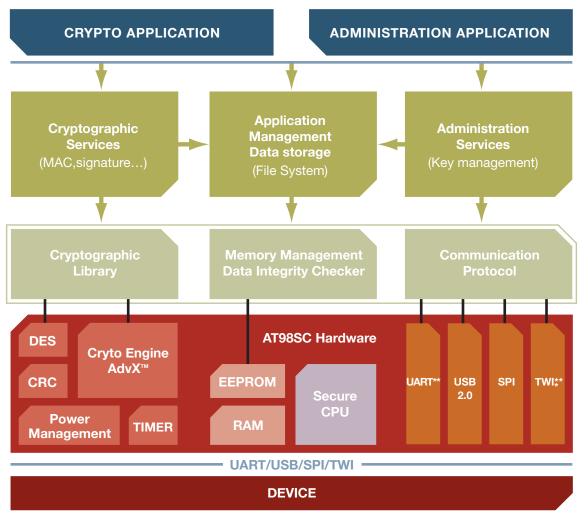
- 8-/16-bit or 32 bit RISC Core
- On-chip Secure Storage on EEPROM for User Data
- Hardware Cryptographic Accelerator
- USB 2.0 Full Speed Interface,USB CCID Compliant
- SPI, UARTs, TWI Interfaces
- Designed to Meet C.C. EAL4+ and FIPS 140-2 Certification

Applications

- Set Top Boxes
- Gaming Platforms
- Vending machines
- Multimedia Centers
- Routers, Servers
- Ink Cartridges, Peripherals, Batteries
- USB e-Tokens
- Security Dongles
- Secure Flash Drives
- PKCS#11



Based on Atmel smart card design expertise and leadership, the AT98SC family embeds a cryptographic application allowing strong challenge-response authentication, one time password generation, digital signature (RSA PKCS#1, ECDSA), data encryption (3DES, RSA PKCS#1 v2.1), message digest (SHA1,SHA256), public key generation (RSA, ECC) and random number generation. It also includes an administration application to manage contents and configuration of the chip. Data are permanently stored in a file system (EEPROM located) which is fully customizable according to customer application requirements. Folders can be password protected and file access rights can be defined to protect user sensitive data and restrict access to cryptographic features.



(*) Two Wire Interface (**) Future products

Part Number	EEPROM	I/O Interface	Voltage	Package
AT98SC008CT	8K	SPI	1.62-5.5V	44QFN
AT98SC032CT-USB	32K	USB 2.0	1.62-5.5V	44QFN, 44LQFP, SOIC-8

More information on:

http://www.atmel.com/products/SecureASSP

Disclaimer. The information in this document is provided in connection with Atmel products. No license, express or implied, by estopped 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 ANS CONDITIONS OF SALES LOCATED ON ATMEL'S WEB SITE, ATMEL ASSUMES NO LIABILITY WHATSOEVER ANS DISCLAIMS ANY EXPRESS, MIPLED OR STATUTORY WARRANTY.
ERLATINGS TO THE PRODUCTS INCON-PRENDINGENTS. IN NO EXPRESS AND EXPRESS. AND EXPRESS. AND EXPRESS AND EXPRESS. AND EXPRESS AND EXPRESS. AND EXPRESS AND EXPRESS AND EXPRESS AND EXPRESS OF EXPRESS OF EXPRESS AND EXPRESS OF EX

Atmel Corporation

2325 Orchard Parkway San Jose, CA 95131 USA Tel.: (408) 441-0311

Regional Headquarters *Europe*

Atmel Sarl
Route des Arsenaux 41
Case postale 80
CH-1705 Fribourg

Fax: (41) 26-426-5555 Fax: (41) 26-426-5500

Asia

Room 1219 Chinachem Golden Plaza 77 Mody Road Tsimshatsu East Kowloon Hong Kong

Tel.: (852) 2721-9778 Fax: (852) 2722-1369

lapan

9F, Tonetsu Shinkawa Bldg 1-24-8 shinkawa Chuo-ku, Tokyo 104-0033

Tel.: (81) 3-3523-3551

Product Contact:

Smart Cards
Zone Industrielle
13106 Rousset Cede

Tel.: (33) 4-42-53-60-00 Fax: (33) 4-42-53-72-77

Literature request

www.atmel.com/literatur

Veb Site

www.atmel.com

© 2006 Atmel Corporation. All rights reserved.

Atmel", logo and combinations therof, Everywhere You Are® and others are egistered trademarks, AdvX™ and others are trademarks of Atmel Corporation or its subsidiaries. Other terms and product names may be trademarks of others.

6535A-SCIC-10/06 2K

