

Features

- **Smart Card Interface**
 - Smart Card Interface Compliant with ISO 7816 and EMV 2000
 - Support of T=0, T=1, TWI (S=8), 2-wire: SLE 4432/42 (S=10), 3-wire: SLE4418/28 (S=9), Others on Request
 - High Performance Smart Card Interface
 - Supports 5V, 3V and 1,8V Smart Cards
 - Supply Current 60 mA to Power the Smart Card
 - Smart Card Movement Detection with Auto Power-off
 - Automatic Detection of Smart Card Type
 - Short-circuit and Thermal Protection
 - 8-pin Handling (C4/C8 supported)
 - On Request: 2nd Smart Card Interface
- **Host Interface**
 - PCMCIA
 - Transmission Speed: 16 MBit/sec
- **Compliance**
 - WHQL (Microsoft) Certified
 - EMV 2000 (Europay, Mastercard, Visa) Certified
 - PCMCIA
 - ISO 7816
 - HBCI
- **Other Features**
 - Fast and Easy Certification Process
- **PC/SC Driver Support**
 - Windows 98[®]
 - Windows ME[®]
 - Windows NT[®]4.0
 - Windows 2000[®]
 - Windows XP[®]
 - Windows CE[®] 3.0 / CE.NET (Depending on Hardware)
 - Linux[®]
 - MacOS X[®]
- **Deliverables**
 - 64-PIN VQFP Chip (Including Firmware and Drivers) On a Per-unit License Fee
- **Development**
 - Design-In Kit Containing:
 - 3 CardMan[®] Smart@Bus Chips
 - Ready to use sample PCB
 - CD with Drivers and Documentation



CardMan[®]
Smart@Bus

AT83C25OK

Summary

Preliminary

4308AS-SCR-05/04



This is a summary Document. A complete document is available on the Omnikey Web site. www.omnikey.com

Description

Smart Cards are increasingly being used for Payments, Home-Banking, Access Control, Internet Security, PKItokens, Health Care, Loyalty, etc.

The CardMan Smart@Bus chip set is a ready to use precertified smart card reader interface to be implemented into PCMCIA hosts. It facilitates the hardware integrators in reducing time-to-market and offers a unique opportunity to quickly and easily include smart cardreader functionality in their systems. The already existing certifications and compliances guarantee a fast and easy certification process.

With its high performance Smart Card Interface CardMan Smart@Bus supports smart-card technology of the future.

The PCMCIA support makes the CardMan Smart@Bus the preferred solution for the integration into Notebooks or PC-Bus systems. This can be easily done without any firmware or software (driver) development, simply by embedding the CardMan® Smart@Bus design and chipset into the target system.

CardMan Smart@Bus is based on Atmel's AT83C5122 microcontroller. the above features make the CardMan Smart@Bus the perfect answer to the increasing demands of many applications.



Ordering information

Part Number	Temperature Range	Package	Packing
AT83C25OKxxx-RDTIM	Industrial	VQFP64	Tray
AT83C25OKxxx-RDRIM	Industrial	VQFP64	Tape & Reel

xxx: Firmware version



Atmel Corporation

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

Regional Headquarters

Europe

Atmel Sarl
Route des Arsenaux 41
Case Postale 80
CH-1705 Fribourg
Switzerland
Tel: (41) 26-426-5555
Fax: (41) 26-426-5500

Asia

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

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

Atmel Operations

Memory

2325 Orchard Parkway
San Jose, CA 95131, USA
Tel: 1(408) 441-0311
Fax: 1(408) 436-4314

Microcontrollers

2325 Orchard Parkway
San Jose, CA 95131, USA
Tel: 1(408) 441-0311
Fax: 1(408) 436-4314

La Chantrerie
BP 70602
44306 Nantes Cedex 3, France
Tel: (33) 2-40-18-18-18
Fax: (33) 2-40-18-19-60

ASIC/ASSP/Smart Cards

Zone Industrielle
13106 Rousset Cedex, France
Tel: (33) 4-42-53-60-00
Fax: (33) 4-42-53-60-01

1150 East Cheyenne Mtn. Blvd.
Colorado Springs, CO 80906, USA
Tel: 1(719) 576-3300
Fax: 1(719) 540-1759

Scottish Enterprise Technology Park
Maxwell Building
East Kilbride G75 0QR, Scotland
Tel: (44) 1355-803-000
Fax: (44) 1355-242-743

RF/Automotive

Theresienstrasse 2
Postfach 3535
74025 Heilbronn, Germany
Tel: (49) 71-31-67-0
Fax: (49) 71-31-67-2340

1150 East Cheyenne Mtn. Blvd.
Colorado Springs, CO 80906, USA
Tel: 1(719) 576-3300
Fax: 1(719) 540-1759

Biometrics/Imaging/Hi-Rel MPU/ High Speed Converters/RF Datacom

Avenue de Rochepleine
BP 123
38521 Saint-Egreve Cedex, France
Tel: (33) 4-76-58-30-00
Fax: (33) 4-76-58-34-80

Literature Requests

www.atmel.com/literature

Disclaimer: Atmel Corporation makes no warranty for the use of its products, other than those expressly contained in the Company's standard warranty which is detailed in Atmel's Terms and Conditions located on the Company's web site. The Company assumes no responsibility for any errors which may appear in this document, reserves the right to change devices or specifications detailed herein at any time without notice, and does not make any commitment to update the information contained herein. No licenses to patents or other intellectual property of Atmel are granted by the Company in connection with the sale of Atmel products, expressly or by implication. Atmel's products are not authorized for use as critical components in life support devices or systems.

© Atmel Corporation 2004. All rights reserved. Atmel® and combinations thereof are the trademarks of Atmel Corporation or its subsidiaries. Microsoft Windows 98/ME/ NT/2000/XP/CE® are trademarks and/or registered trademarks of Microsoft Corporation. Linux® is a registered trademark of Linus Torvalds. CardMan® is a registered trademark of Omnikey AG. Mac OS X® is a registered trademark of Apple corporation. Other terms and product names may be the trademarks of others.



Printed on recycled paper.

4308AS-SCR-05/04