Features

- MultiMediaCard (MMC) Form Factor
- Single 2.7V to 3.6V Supply
- 20 MHz Max Clock Frequency
- Serial Peripheral Interface (SPI) Compatible
- Low Power Dissipation
 - 4 mA Active Read Current Typical
 - 2 μA CMOS Standby Current Typical
- Industrial Temperature Range



The AT45DCB008, AT45DCB004 and AT45DCB002 are 2.7-volt only SPI compatible serial interface DataFlash® Cards. They are offered in 8-megabyte (64-Mbit), 4-megabyte (32-Mbit) and 2-megabyte (16-Mbit) densities. These 7-pin cards are form factor compatible to the MultiMediaCard standard leveraging on a wide range of low cost connectors that are commercially available. Additionally, the DataFlash Card is pinout compatible to the SPI version of the MMC card.

The small form factor and simple interface make the DataFlash Card ideal for a wide variety of data- and program code-storage applications where a removable storage medium is required. Applications range from voice/audio, text or image storage to software applications, system upgrades and software patches.

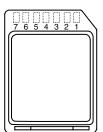
For detailed device specifications, please refer to the corresponding DataFlash datasheets:

- AT45DCB008 reference AT45DB642
- AT45DCB004 reference AT45DB321B
- AT45DCB002 reference AT45DB161B

Pin Configuration

Pin #	Pin Name	Function	
1	CS	Chip Select	
2	SI	Serial Input	
3	GND	Ground	
4	VCC	Supply	
5	SCK	Serial Clock	
6	NC	No Connect	
7	SO	Serial Output	







8-megabyte, 4-megabyte, and 2-megabyte 2.7-volt Only DataFlash® Cards

AT45DCB008 AT45DCB004 AT45DCB002





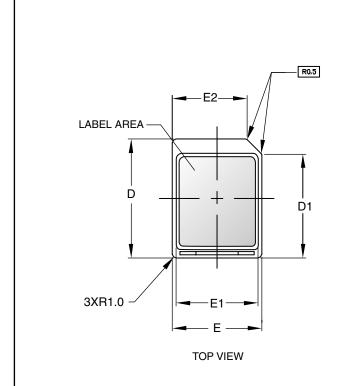
Ordering Information

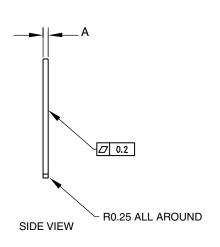
f _{SCK}	I _{CC} (mA)					
(MHz)	Active	Standby	Ordering Code	Package	Operation Range	
20	10	0.01	AT45DCB008	7DF1	Industrial	
			AT45DCB004		(-40°C to 85°C)	
			AT45DCB002			

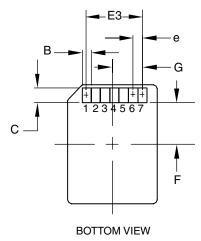
Package Type				
7DF1	7-lead, 2.5 mm Pitch 24 x 32 x 1.4 mm Body DataFlash Card			

Packaging Information

7DF1 - DataFlash Card







COMMON DIMENSIONS

(Unit of Measure = mm)

		`		
SYMBOL	MIN	NOM	MAX	NOTE
Α	1.30	1.40	1.50	
В	2.40 TYP			
С	4.00 TYP			
D	31.90	32.00	32.10	
D1	28.00 REF			
E	23.90	24.00	24.10	
E1	22.00 REF			
E2	20.00 REF			
E3				
F	20.00 REF			
G				
е				

10/09/01

2325 Orchard Parkway San Jose, CA 95131 TITLE

 $\textbf{7DF1},\,7\text{-pad},\,2.5\;\text{mm}\;\text{Pitch}\;24\;x\;32\;x\;1.4\;\text{mm}\;\text{Body}\;\text{DataFlash}\;\text{Card}$

DRAWING NO. 7DF1

Α

REV.





Atmel Headquarters

Corporate Headquarters 2325 Orchard Parkway San Jose, CA 95131 TEL (408) 441-0311 FAX (408) 487-2600

Europe

Atmel SarL Route des Arsenaux 41 Casa Postale 80 CH-1705 Fribourg Switzerland TEL (41) 26-426-5555 FAX (41) 26-426-5500

Asia

Atmel Asia, Ltd. Room 1219 Chinachem Golden Plaza 77 Mody Road Tsimhatsui East Kowloon Hong Kong TEL (852) 2721-9778 FAX (852) 2722-1369

Japan

Atmel Japan K.K. 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 Product Operations

Atmel Colorado Springs 1150 E. Cheyenne Mtn. Blvd. Colorado Springs, CO 80906 TEL (719) 576-3300 FAX (719) 540-1759

Atmel Grenoble

Avenue de Rochepleine BP 123 38521 Saint-Egreve Cedex, France TEL (33) 4-7658-3000 FAX (33) 4-7658-3480

Atmel Heilbronn

Theresienstrasse 2 POB 3535 D-74025 Heilbronn, Germany TEL (49) 71 31 67 25 94 FAX (49) 71 31 67 24 23

Atmel Nantes

La Chantrerie BP 70602 44306 Nantes Cedex 3, France TEL (33) 0 2 40 18 18 18 FAX (33) 0 2 40 18 19 60

Atmel Rousset

Zone Industrielle 13106 Rousset Cedex, France TEL (33) 4-4253-6000 FAX (33) 4-4253-6001

Atmel Smart Card ICs

Scottish Enterprise Technology Park East Kilbride, Scotland G75 0QR TEL (44) 1355-357-000 FAX (44) 1355-242-743

e-mail literature@atmel.com

Web Site http://www.atmel.com

© Atmel Corporation 2001.

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® and DataFlash® are the registered trademarks of Atmel.

Other terms and product names may be the trademarks of others.



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.