imall

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Features

- MultiMediaCard (MMC) Form Factor
- Single 2.7V to 3.6V Supply
- 66 MHz Max Clock Frequency
- Serial Peripheral Interface (SPI) Compatible
- Low Power Dissipation
 - 10 mA Active Read Current Typical
 - 25 µA CMOS Standby Current Typical
- Industrial Temperature Range
- Pb-free/RoHS-compliant Package

1. Description

The AT45DCB008D, AT45DCB004D and AT45DCB002D 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.

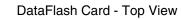
For detailed device specifications, please refer to the corresponding DataFlash datasheets:

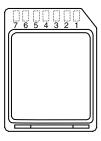
- AT45DCB008D reference AT45DB642D
- AT45DCB004D reference AT45DB321D
- AT45DCB002D reference AT45DB161D

Table 1-1.	Pin Configuration
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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

Figure 1-1.







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

AT45DCB008D AT45DCB004D AT45DCB002D

3607E-DFLASH-01/08





2. Ordering Information

f _{scк}	I _{CC} (mA)				
(MHz)	Active	Standby	Ordering Code	Package	Operation Range
66	15	0.05	AT45DCB008D AT45DCB004D AT45DCB002D	7DF1 ⁽¹⁾	Industrial (-40° C to 85° C)

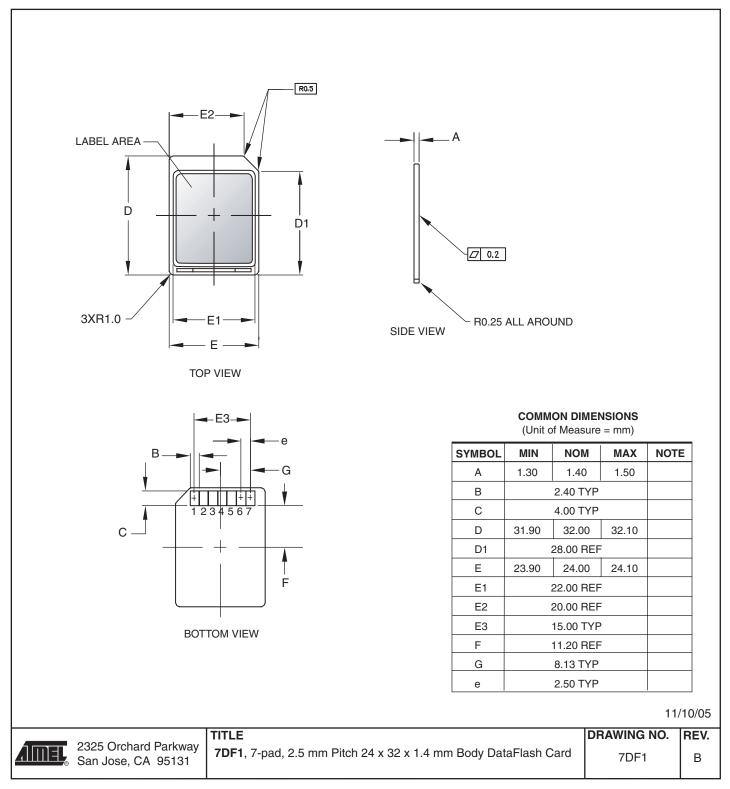
Note: 1. The 7DF1 is a Pb-free/RoHS-compliant package.

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

2 AT45DCB008D/004D/002D

3. Packaging Information

3.1 7DF1 – DataFlash Card







4. Revision History

Revision Level Revision Date	History
A – November 2005	Initial release
B – March 2006	Added text to indicate that DataFlash cards are Pb-free
C – April 2006	Added text to indicate that DataFlash cards are RoHS compliant
D – July 2007	Added AT45DCB001D part number.
E – January 2008	Removed AT45DCB001D part number.

4 AT45DCB008D/004D/002D



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

Web Site www.atmel.com *Technical Support* dataflash@atmel.com

Sales Contact www.atmel.com/contacts

Literature Requests www.atmel.com/literature

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