



SanDisk CompactFlash Memory Card

OEM Product Manual

Version 12.0

Document No. 20-10-00038

02/2007

SanDisk Corporation
Corporate Headquarters
601 McCarthy Boulevard
Milpitas, CA 95035
(408) 801-1000 Phone
(408) 801-8657 Fax
www.sandisk.com

Table of Contents

| | | |
|------------------|--|------------|
| CHAPTER 1 | <i>Introduction</i> | <i>1-1</i> |
| | General Description | 1-1 |
| | Features | 1-2 |
| | Scope | 1-2 |
| | CompactFlash Standard | 1-2 |
| | PCMCIA Standard | 1-3 |
| | Related Documentation | 1-3 |
| | Functional Description | 1-3 |
| | | |
| CHAPTER 2 | <i>Product Specifications</i> | <i>2-1</i> |
| | System Environmental Specifications | 2-1 |
| | System Power Requirements | 2-1 |
| | System Performance | 2-3 |
| | System Reliability | 2-4 |
| | Physical Specifications | 2-4 |
| | | |
| CHAPTER 3 | <i>Interface Description</i> | <i>3-1</i> |
| | Physical Description | 3-1 |
| | Electrical Description | 3-3 |
| | Electrical Specification | 3-8 |
| | Card Configuration | 3-20 |
| | I/O Transfer Function | 3-25 |
| | True IDE Mode I/O Transfer Function | 3-26 |
| | | |
| CHAPTER 4 | <i>ATA Register Set and Protocol</i> | <i>4-1</i> |
| | I/O Primary and Secondary Address Configurations | 4-1 |
| | Contiguous I/O Mapped Addressing | 4-2 |

| | | |
|-------------------|--------------------------------------|------|
| | Memory Mapped Addressing | 4-3 |
| | True IDE Mode Addressing | 4-4 |
| | ATA Registers | 4-4 |
| CHAPTER 5 | <i>ATA Command Description</i> | 5-1 |
| | ATA Command Set | 5-1 |
| | Error Posting | 5-29 |
| CHAPTER 6 | <i>CIS Description</i> | 6-1 |
| APPENDIX A | <i>Ordering Information</i> | A-1 |
| APPENDIX B | <i>Limited Warranty</i> | B-1 |
| APPENDIX C | <i>Disclaimer of Liability</i> | C-1 |

