

NEODIO

NEODIO TECHNOLOGIES CORPORATION

A Introduction to ND7060

**A Multi-Format Flash Card
Reader/Writer Controller
for Embedded Applications**



Features(1):

Turbo CPU

- 8 bit CPU
- 4 cycle instruction with 2.5X performance improvement
- Built-in watchdog timer

PCMCIA/IDE Device Controller

- Conforms to PC-ATA Card and IDE-ATA/ATAPI specification
- Supports 3 variations of mode access
 - PC Card Memory mode
 - PC Card I/O mode
 - True IDE mode

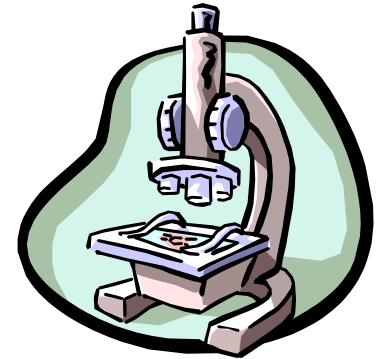
- PIO0~PIO3 mode for host data transfer.
- Supports Multi-word DMA (Mode 1) in ATA/IDE mode

Compact Flash Interface

- Fully compatible with Compact Flash specification version 2.0
- Standard IDE/ATA host interface compliant
- Programmable transfer mode for various access speed

Smart Media/xD-Picture Card Interface

- Fully compatible with Smart Media Electrical Specification Version 1.4, Physical Format Specification Version 1.3, and Logical Format Specification Version 1.3
- Compliant with xD-Picture Card Technical Specification Version 1.1



Features(2):

Memory Stick Interface

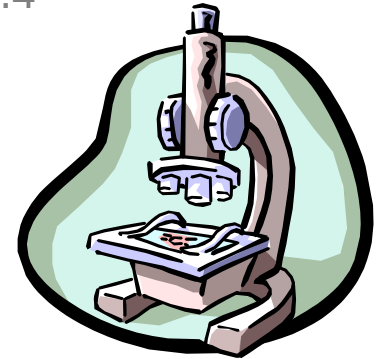
- Fully compatible with the Memory Stick Format Specification Version 1.4 and Memory Stick PRO Format Specification Version 1.00
- Support serial/parallel(4 bit) data bus interface

MultiMedia/Secure Digital Card Interface

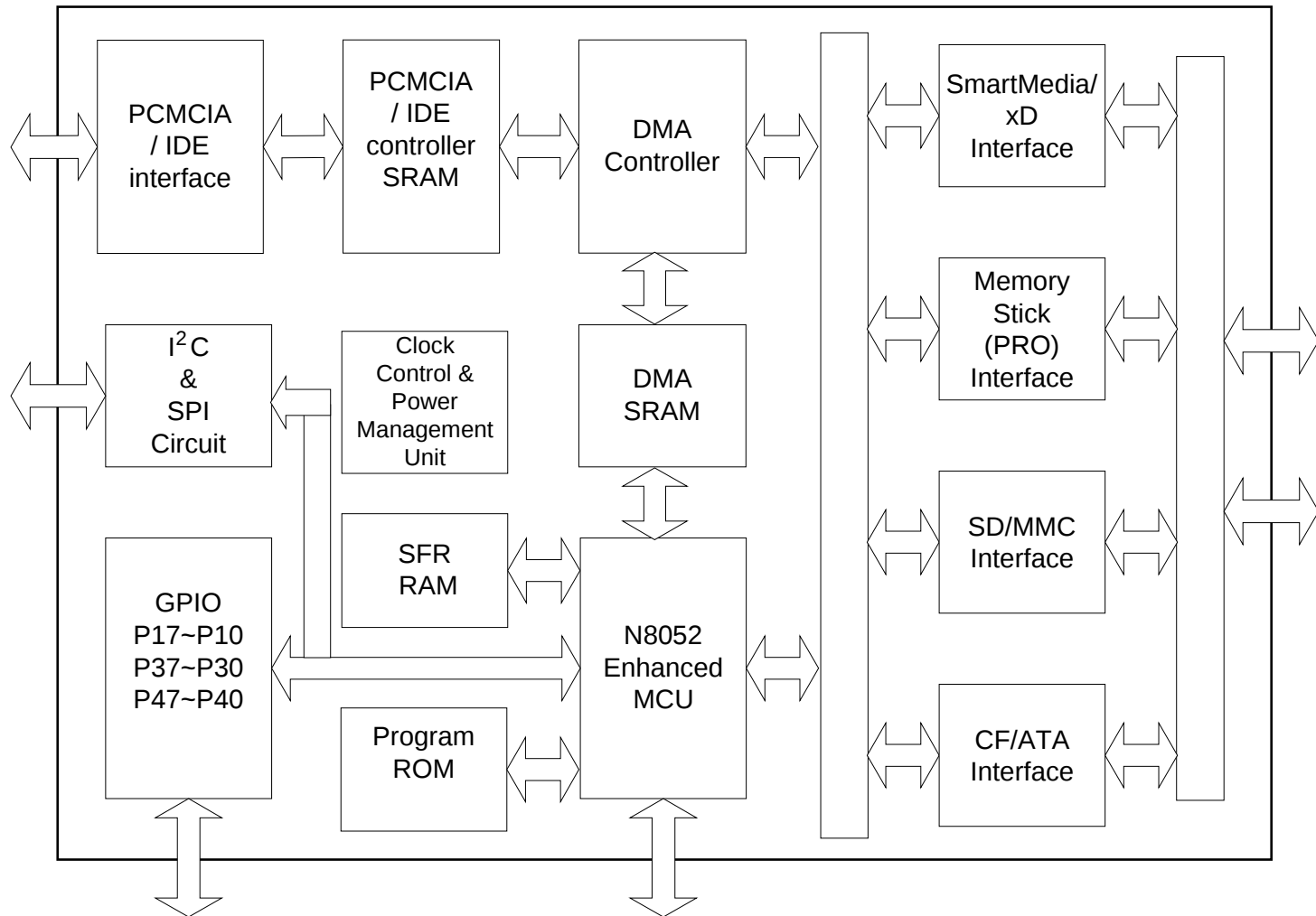
- Fully compatible with MultiMedia Card (MMC) system specification version 3.31 and Secure Digital (SD) memory card specification physical layer version 1.01
- Support serial/parallel data(4 bit) bus interface

Misc

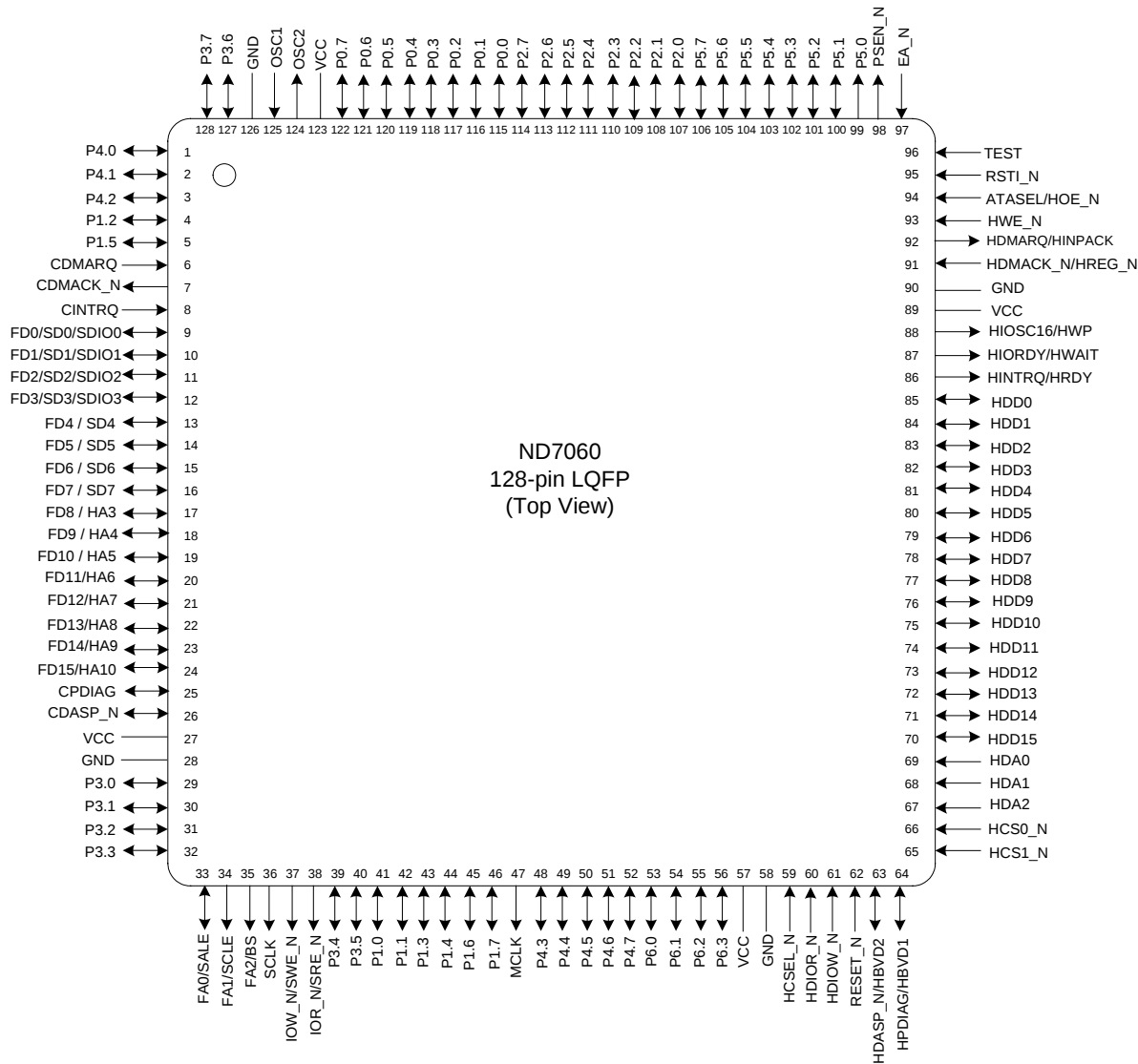
- IAP(In-Application-Programming) with external NOR Flash
- IAP by either host or flash cards
- Internal Mask ROM for default function when IAP is not required
- External serial EEPROM for flexible configuration when IAP is not required
- Requires only one 3.3V voltage supply
- 128 pin LQFP Package (14mm x 14mm)



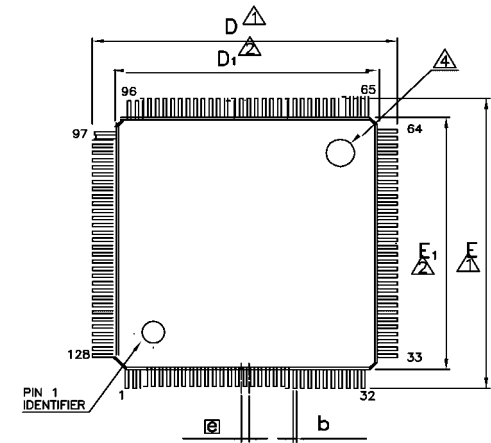
Block Diagram:



Pin Diagram:



Dimension:
128 Pin LQFP
14mm x 14mm



ND7060 Applications:

Digital TV



Printer / MFP



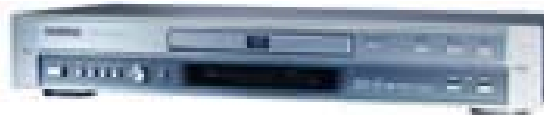
Digital Stereo



Car Audio

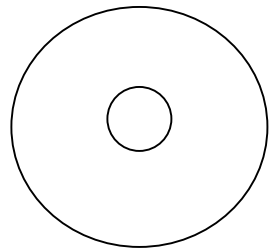


DVD-RW Player



ND7060 Example Application (DVD-RW)

DVD-RW Player



**DVD-RW
Loader
Module**

IDE/ATAPI

Master

**Media
CODEC
Chipset**

Slave

ND7060



ND7060 Schedule

1. Development Kit: Now
Datasheet, Reference Schematic, User Guide
2. Engineering Sample: Now
3. MP: August, 2004

