

## Description

The μPD72061 is a hard-disk controller featuring low power consumption and high-speed data transfers. Based on the μPD7261A/B, it provides control signals for interfacing SMD/SMD-E and ST506/412 type drives. The sophisticated instruction set minimizes the software overhead for the host microprocessor and gives the user flexibility in selecting operating parameters.

The DMA interface signals of the μPD72061 facilitate multisector and multitrack data transfers. Extensive error reporting, verify commands, and CRC/ECC data error checking assure reliable controller operation.

An 8-byte FIFO is used for loading command parameters and obtaining command results. This makes structuring of drivers a simple task. The FIFO also buffers data during DMA read/write operations.

## Features

- Flexible interface supports SMD/SMD-E and ST506/412 type drives
- Programmable track format
- Controls up to eight drives in SMD-type mode, four drives in ST506-type mode

- Parallel seek operation
- Multisector and multitrack transfer
- Data scan and data verify
- High-level commands, including:
  - Read Data, Write Data, Scan Data, Verify Data
  - Read ID, Verify ID
  - Check, Seek (normal or buffered), Specify
  - Read Diagnostic (SMD only), Detect Error
  - Format
- NRZ or MFM format
- Read/write clock frequency: 24 MHz max
- Error detection and correction
- CMOS
- μPD7261A/B compatible
- Single +5-volt power supply
- 40-pin plastic DIP, 52-pin plastic miniflat, 52-pin PLCC

## Ordering Information

Part Number	Package
μPD72061C	40-pin plastic DIP
μPD72061GC-3B6	52-pin plastic miniflat
μPD72061L	52-pin PLCC

μPD72061 Block Diagram

