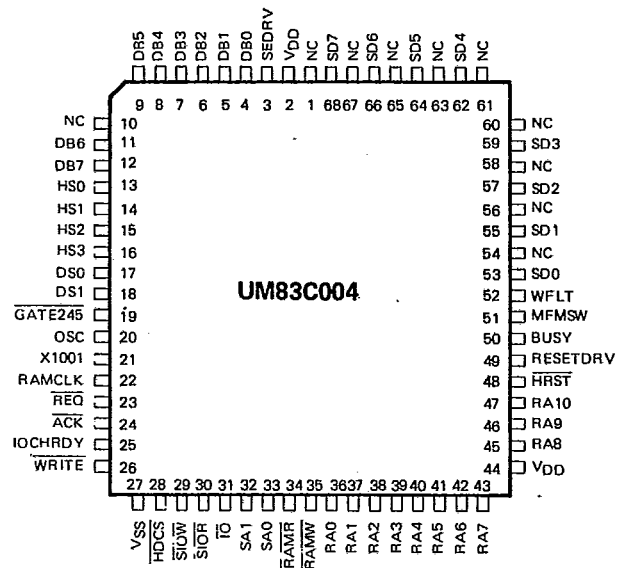


## UM83C004 Hard Disk Controller Interface

### Features

- Interfaces to PC XT systems with Hard-Disk controller
- I/O channel ready signal generator (generates wait state)
- Clock generator
- Sector buffer RAM addressing and control
- Data bus drives directly to slot.
- 68-pin PLCC package.
- Supports RLL/MFM Disk Controller

### Pin Configuration



## UM83C021 Hard Disk Controller

### Features

- Serializer-deserializer
- Programmable track format, compatible with WD Track format
- External drive select and head select registers for expandability
- With hardware ECC capability
- Internal phase detector for phase lock oscillator
- Interface options: ST-506, ST-412, ST-412HP, ESDI, FLOPPY, and QIC-36 TAPE
- Sector options: SOFT, HARD, ESDI ADDRESS MARKS, ESDI BYTE and ESDI BYTE CLOCKS
- Recording options: UNENCODED, FM, MFM or RLL
- Error checking and correcting options: ECC or CRC
- Write data options: PULSE, NRZ or NRZI
- Read data options: PULSE, NRZ or NRZI
- TTL compatible inputs and outputs. Outputs drive 8 LSTTL loads

### Pin Configuration

