

T-52-33-61

3211 PC AT/XT Floppy Disk Controller with IDE

Features

- Compatible with IBM PC/AT and XT disk drive systems
- Supports 360K/720K/1.2M/1.44M formats
- Supports up to four 3.5" or 5.25" floppy disk drives
- Emulates the NEC765A in an IBM PC environment
- Built-in handshaking signals to operate in either DMA or non-DMA mode
- Built-in address mark detection circuitry to simplify read electronics
- IBM PC system address decoder
- On-chip digital data separator eliminates critical analog adjustments
- Data rates of 250K, 300K, 500K, and 1Mb/s
- 16-byte FIFO with programmable threshold
- Programmable write precompensation for 1Mb/s transfer rate
- Power saving standby mode
- Supports DMA and polled mode with FIFO
- Built-in IDE controller requires no external components
- Programmable data record length, 256, 512 or 1024 bytes/sector
- Multisector and multitrack transfer
- Flexible data scan capability, single sector or the entire track
- 16-bit half cell divide algorithm reduces soft error rates
- Direct high current drive output
- Programmable 3F0h input port
- 1.5 micron high performance CMOS technology
- 100-QFP package

Block Diagram

