SIBIZ Corporation
707 Continental Circle #1133, Mountain View, CA 94040
tel/fax: 650-903-0879, info@sibiz.net, www.sibiz.net

CACHE CONTROLLER

Multi-purpose Cache controller

Feature Specification

- Direct-Mapped, Set-Associative And Associative Cache Compatable
- Configurable For Any Number Of Words Per Cache-Lines
- Configurable For Any Number Of Cache Memory Banks
- Configurable For 8, 16, 32, 64-bit Data Width
- Configurable For Any Number Of Cache Lines
- AMBA AXI Memory Interface Support
- Other Interface Protocols Suport Can Be Added If Needed
- Performance Optimization Features:
- Critical Word First Fetch Capability
- Cache-line Fetch Support With Address Wrap-Around Capability
- Write-back Buffer For Cache-Line Write-Back Optimization

The CACHE CONTROLLER IP Package

- Cache Controller Verilog RTL
- Verilog Testbench
- Verification Environemnt, scripts and tools
- Configurable Test Transaction Toolchain
- Synthesis And STA Scripts
- Documentation

Block Diagram