iW-ATA/ATAPI Controller

iWave
Embedding Intelligence

Actel
CompanionCore

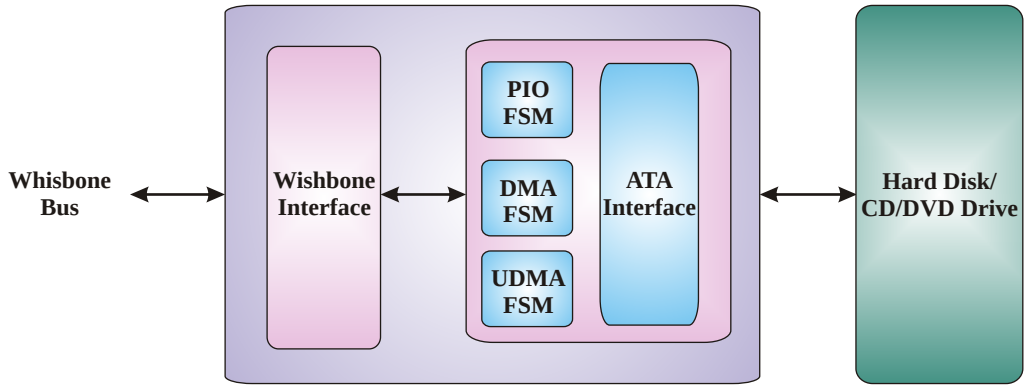
Overview

iW-ATA/ATAPI Controller core provides a simple interface towards ATA/ATAPI devices. This core can be used to control ATA/ATAPI memory devices such as hard-disk drives, CD/DVD players.

Features

- One IDE bus
- Parallel ATA/ATAPI-5 mode of operation
- ATA PIO mode 0,1,2,3, and 4
- ATA Multi Word DMA mode 0, 1 and 2
- ATA UDMA mode 0, 1, 2,3 and 4
- Wishbone interface
- 28-bit LBA mode of addressing

Block Diagram



Device Utilization Summary

Actel Family	Device	Tiles	Core Utilization	I/O cells	RAM Utilization	Frequency	Power
ProASIC3	A3P125	1708	55.60%	103	50%	100 MHz	618.867 mW
IGLOO	AGL125	1701	55.37%	103	50%	100 MHz	123.319 mW

Benefits

- Embedded applications in networking and Telecommunication Systems
- High speed, high performance peripheral applications

Deliverables

- Technical Specification
- RTL Verilog Synthesisable Code
- Comprehensive Test Environment
- Technical Support and Maintenance

About Us

***i*Wave** Systems Technologies is an embedded Hardware and Software Turnkey Design Services company, focused on providing integrated solutions for developing innovative products and systems in the areas of Communication, Consumer electronics and Multimedia. iWave offers complete turnkey solutions for systems engineering and product development.

Contact Us

India: *i*Wave Systems Technologies Pvt. Ltd., 7/B, 29th Main, BTM Layout 2nd Stage, Bangalore 560 076. INDIA
Ph : +91-80-26683700, 26786245, Fax : +91-80-26685200
Email : mktg@iwavesystems.com, Web : www.iwavesystems.com

Japan: *i*Wave Japan, Inc. 8F Kannai Sumiyoshi Building 3-29, Sumiyoshi-cho, Naka-ku, Yokohama Kanagawa, Japan.
Ph : +81-45-227-7626, Fax : +81-45-227-7646, Email : info@iwavejapan.co.jp, Web : www.iwavejapan.co.jp