Features

- Edge-Controlled Power Down Pin
- Zero Power Equivalent of ATF22V10B
- Edge-Sensing Zero Standby power (10 μA Typical)
- Industry Standard Architecture

Low-Cost, Easy-To-Use Software Tools

- High Speed Electrically Erasable Programmable Logic Device 5 ns Max Propagation Delay
- CMOS and TTL Compatible Inputs and Outputs Latch Feature Hold Outputs to Previous Logic States
- Advanced Flash Technology

Reprogrammable

100% Tested

High Reliability CMOS Technology

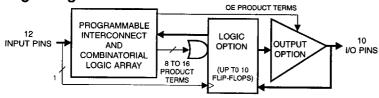
20 Year Data Retention

100 Erase/Write Cycles

2,000 V ESD Protection 200 mA Latchup Immunity

- Full Military, Commercial and Industrial Temperature Ranges
- Dual-In-Line and Surface Mount Packages in Standard Pinouts

Logic Diagram



Description

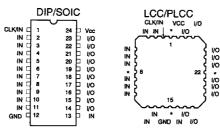
The ATF22V10CZ is a high performance CMOS (electrically erasable) Programmable Logic Device (PLD) that utilizes Atmel's proven electrically erasable Flash memory technology. Speeds down to 10 ns and "zero" standby power dissipation are offered. All speed ranges are specified over the full 5 V \pm 10% range for military and industrial temperature ranges, and 5 V \pm 5% for commercial ranges.

The ATF22V10CZ provides the zero power CMOS PLD solution, with "zero" standby power (10 μ A typical). The ATF22V10CZ powers down automatically to the zero power mode though Atmel's patented Input Transition Detection (ITD) circuitry when the device is idle.

The ITD circuitry feature allows the user flexibility to reduce total system power, and enhance reliability all without sacrificing speed. Pin "keeper" circuits on input and output pins hold (continued)

Pin Configurations

Pin Name	Function		
CLK	Clock		
IN	Logic Inputs		
1/0	Bidirectional Buffers		
*	No Internal Connection		
vcc	+5 V Supply		



Performance Flash PLD

High

Advance Information

0420A





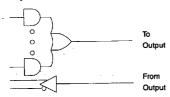
Description (Continued)

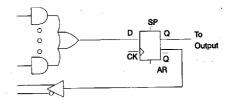
pins to their previous logic levels when idle. This can reduce static power consumed by pull-up resistors.

The ATF22V10CZ macrocell incorporates a variable product term architecture each output is allocated from eight to 16 product terms, which allows highly complex logic functions to be Two additional product terms are included to provide synchronous preset and asynchronous reset. These terms are common to all 10 registers. All registers are automatically cleared upon power up.

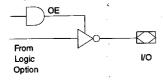
Register Preload simplifies testing. A Security Fuse prevents unauthorized copying of programmed fuse patterns.

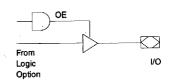
Logic Options





Output Options





D.C. and A.C. Operating Conditions

:	Commercial	Industrial	Military
Operating Temperature (Case)	0°C - 70°C	-40°C - 85°C	-55°C - 125°C
Vcc Power Supply	5 V ± 5%	5 V ± 10%	5 V ± 10%