Features

- Quarter Power Equivalent of ATF22V10B 55 mA Maximum
- Low Power ATF22V10BQL 10 mA Maximum Standby
- Industry Standard Architecture
 - Low-Cost, Easy-To-Use Software Tools
- High Speed Electrically Erasable Programmable Logic Device 15 ns Max Propagation Delay
- CMOS and TTL Compatible Inputs and Outputs Input and I/O Pull-Up Resistors
- Advanced Flash Technology

Reprogrammable

100% Tested

High Reliability CMOS Technology

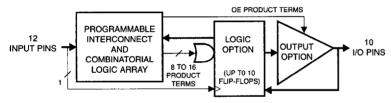
20 Year Data Retention 100 Erase/Write Cycles 2.000 V ESD Protection

200 mA Latchup Immunity

• Full Military, Commercial and Industrial Temperature Ranges

Dual-In-Line and Surface Mount Packages in Standard Pinouts

Logic Diagram



Description

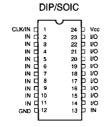
The ATF22V10BQs are high performance CMOS (electrically erasable) Programmable Logic Devices (PLDs) that utilize Atmel's proven electrically erasable Flash memory technology. Speeds down to 15 ns and power dissipation as low as 10 mA are offered. All speed ranges are specified over the full 5 V \pm 10% range for military and industrial temperature ranges, and 5 V \pm 5% for commercial ranges.

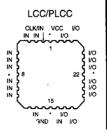
The ATF22V10BQL provides the fastest low power CMOS PLD solution, with low DC power (5.0 mA typical). The ATF22V10BQL significantly reduces total system power and enhances system reliability.

(continued)

Pin Configurations

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







High Performance Flash PLD

Advanced Information



Description (Continued)

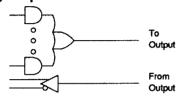
The ATF22V10BQs incorporate a variable product term architecture. Each output is allocated from eight to 16 product terms, which allows highly complex logic functions to be realized.

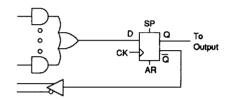
Two additional product terms are included to provide synchronous preset and asynchronous reset. These terms are common to

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%