

Implementing AVR-like I/O Ports on the AT94K FPGA

Features

- Full Source Code for Input and Output Ports
- Target Implementation Based on AT94K Starter Kit

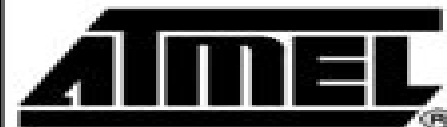
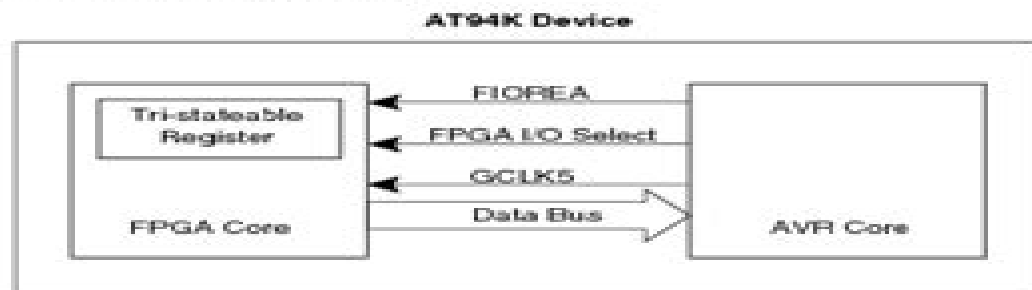
Introduction

The purpose of this application note is to explain how the FPGA Core of the AT94K Field Programmable System Level Integrated Circuit (FPSLIC™) device can be used to expand the peripherals of the AVR® Core, from two (Port D and Port E) to more peripherals. This application note uses the bi-directional data bus between the two cores of the FPSLIC device.

Input Port Description

The Input Port consists of an 8-bit register, which is enabled when the AVR I/O Read Enable (FIOREA) signal and the corresponding FPGA I/O Select are both active. For more information on the AVR I/O Read Enable, please refer to the "AT94K FPSLIC" datasheet, available on the Atmel web site (<http://www.atmel.com/atmel/products/prod317.htm>). See Figure 1 for further architectural information of the Input Port.

Figure 1. Input Port Block Diagram



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