ATF15xx-DK2

The ATF15xx-DK2 is a second-generation low-cost development/programmer kit for the designer who wishes to begin working with Atmel's ATF15xx family of industry standard pin-compatible Complex Programmable Logic Devices (CPLD) with Logic Doubling™. Like the original ATF15xx-DK, the "DK2" allows designers to design, synthesize, simulate, program and evaluate their designs using their choice of either free Atmel-WinCUPL™ design software or a 30-day free trial version of Atmel-ProChip Designer™ using any 84-pin ATF15xx device, such as those provided with the kit. In addition, the kit can be extended to be used to program all of the Atmel ATF15xx Family with different packages by simply adding the package adapters (only PLCC84 is included in this kit, see backside for different package socket adapter options).

Once the design is completed, the designer can install a sample ATF15xx Family device in the provided PCB and program it using the built-in In-System-Programmable (ISP) industry-standard 4-pin JTAG interface, ATMISP software, and PC parallel port cable provided. The tutorial included takes the designer through the complete CPLD development process. All software runs on PC Windows® platforms. In addition, mounting holes are provided to add wire-wrap terminals for all pins to allow comprehensive proto-typing and evaluation. The ATF15xx-DK2 includes everything a designer needs to get started with Atmel-Logic Doubling CPLDs including:

CPLD Demo/Programmer Board

- 84-lead PLCC Adapter
- ISP (JAT) Port
- Wire-wrap Terminal Holes-all Pins
- 2 MHz Crystal Oscillator
- Eight 8-segment LED Displays
- 5V and 3.3V VCC Operation
- Easy Access to CPLD I/O Pins
- Global Clear, Output Enable and Power Switches

Logic Doubling CPLDs

- ATF1508AS-15JC84 5V 128 Macrocell CPLD with ISP
- ATF1508ASVL-20JC84 3.3V Low-power 128 Macrocell CPLD with ISP

CPLD Programmable Cable

- 5V and 3.3V ISP Cable for PC Parallel Port with VCC Auto Detection

Software CD

- Free Atmel-WinCUPL Design Software and User's Manual
- 30-day Trial Version of Atmel-ProChip Designer
- Logic Doubling Support and Documentation
- Logic Doubling Reference
- Atmel Databook CD

Atmel-WinCUPL

- Design Entry
  - CUPL
- Compilation
- WinSIM Functional Simulation
- Atmel Proprietary Device Fitters with Logic Doubling

Atmel-ProChip Designer

- Design Entry
  - VHDL
  - Schematic
  - CUPL
- Synthesis
- Functional Simulation
- Atmel Proprietary Device Fitters with Logic Doubling
- Timing Simulation

Ordering Information for the ATF15xx-DK2 Kit

Ordering Code	Price
ATF15xx-DK2	$99

Ordering Information for Package Adapters

Package	Ordering Code	Price
44-lead TQFP	ATF15xx-SAA44	$35
44-lead PLCC	ATF15xx-SAJ44	$35
68-lead PLCC	ATF15xx-SAJ68	$35
84-lead PLCC	ATF15xx-SAJ84	Included in DK2 Kit
100-lead TQFP	ATF15xx-SAA100	$135
100-lead PQFP	ATF15xx-SAQ100	$135
160-lead PQFP	ATF15xx-SAQ160	$149