

**LOGIC DOUBLING™
SEE FOR YOURSELF**

ATF15xx-DK

CPLD DEVELOPMENT KIT



Atmel offers a low-cost development kit for the designer who wishes to begin working with Atmel's ATF15xx Family of industry standard pin compatible complex programmable logic devices (CPLDs) with Logic Doubling™. The kit allows designers to design, synthesize, and simulate their design using their choice of either free Atmel-WinCUPL design software or a 30-day free trial version of Atmel-ProChip Designer. When design is complete the designer can install the sample ATF15xx Family devices in the provided PCB and program them using the built in in-system programmable (ISP) industry-standard 4-pin JTAG interface, ATMISP software, and PC parallel port cable provided. A comprehensive tutorial takes the designer through the complete CPLD development process. All software runs on PC Windows® platforms. The ATF15xx-DK includes everything a designer needs to get started with Atmel Logic Doubling CPLDs, including:

CPLD Demo Board

- 84-pin auto-eject socket
- In System Programming (JTAG) port
- 2MHz crystal oscillator
- Eight 8-segment LED displays
- 5 V and 3.3 V Vcc operation
- Easy access to all CPLD I/O pins
- Global Clear, Output Enable and Power switches

Logic Doubling™ CPLDs

- ATF1508AS 5 V 128 macrocell CPLD with ISP
- ATF1508ASVL 3.3 V Low Power 128 macrocell CPLD with ISP

CPLD Programming Cable

- 5 V / 3.3 V ISP cable for PC parallel port with Vcc detection

Software CD

- Free Atmel-WinCUPL design software and Users Manual
- 30-day free trial version of Atmel-ProChip Designer™ software.
- Atmel fitters with Logic Doubling support and docs.
- ATMISP software and Users Manual
- Logic Doubling Reference designs and White Paper.

Databook CD

- All Atmel Programmable Logic Datasheets and Application Notes





Atmel-ProChip Designer™

- Design Entry
 - VHDL
 - Schematic
 - CUPL
- Synthesis
- Functional Simulation
- Place and Route
 - Atmel proprietary device fitters with Logic Doubling support
- Timing Simulation
 - Atmel VITAL models

Atmel-WinCUPL™

- Design Entry
 - Schematic
 - CUPL
- Compilation
- WinSIM Functional Simulation
- Place and Route
 - Atmel proprietary device fitters with Logic Doubling support

Kit contents

Description	Atmel part number
5 V / 3.3 V ATF15xx Family demo board with ISP	-
5 V 128 macrocell CPLD with ISP	ATF1508AS-10JC84
3.3 V Low Power 128 macrocell CPLD with ISP	ATF1508ASVL-20JC84
5 V / 3.3 V ISP programming cable	ATDH1150VPC
Atmel-EPLD software and documentation CD includes:	-
Atmel-WinCUPL HDL design software	ATDS1000PC
Atmel-ProChip Designer design software suite	ATDS1500PC
ATMISP Software for Windows 98 and NT	ATDH1150/1PC
Proprietary fitter software for all Atmel PLDs	-
User Manuals for above	-
Logic Doubling White Paper (tutorial)	-
Logic Doubling Reference Designs	-
Atmel-Databook CD includes: Atmel ATF15xx Family datasheets Atmel ATF15xx Family application notes	-

1. 30-day trial version. Contact your Atmel authorized sales representative for information on how to qualify for upgrade to a free permanent license

Ordering Information

Ordering Code	Price
ATF15xx-DK	\$99.00

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