



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**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



Corporate Headquarters

2325 Orchard Parkway
San Jose, CA 95131
Tel: (408) 441-0311
Fax: (408) 487-2600

Europe

Atmel SarL
Route des Arsenaux 41
Casa Postale 80
CH-1705 Fribourg
Switzerland
Tel (41) 26-426-5555
Fax (41) 26-426-5500

Asia

Atmel Asia, Ltd
Room 1219
Chinachem Golden Plaza
77 Mody Road
Tsimshatsui East, Kowloon
Hong Kong
Tel: (852) 2721-9778
Fax: (852) 2722-1369

Japan

Atmel Japan K.K.
9F, Tonetsu Shinkawa Bldg.
1-24-8 Shinkawa
Chuo-ku, Tokyo 104-0033
Japan
Tel: (81) 3-3523-3551
Fax: (81) 3-3523-7581

e-mail

literature@atmel.com

Web Site

©Atmel Corporation 2001.
Atmel Corporation makes no warranty for the use of its products, other than those expressly contained in the Company's standard warranty which is detailed in Atmel's Terms and Conditions located on the Company's web site. The Company assumes no responsibility for any errors which may appear in this document, reserves the right to change devices or specifications detailed herein at any time without notice, and does not make any commitment to update the information contained herein. No licenses to patents or other intellectual property of Atmel are granted by the Company in connection with the sale of Atmel products, expressly or by implication. Atmel's products are not authorized for use as critical components in life support devices or systems.

Marks bearing ® and/or ™ are registered trademarks and trademarks of Atmel Corporation.

Terms and product names in this document may be trademarks of others.