

# Atmel ATF15xxASV(L) Software Automatically Detects 3.3V vs. 5.0V Applications and Sets POR Options

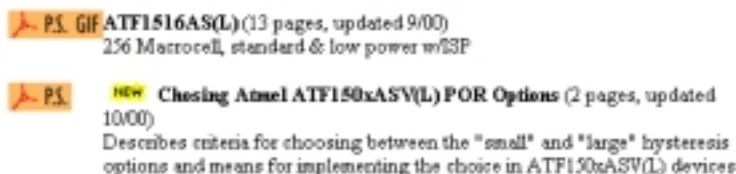


## Summary

Atmel software tools have been updated to check for 5.0V versus 3.3V devices and set the Power\_On\_Reset Hysteresis option to the appropriate value: "Small" for 5.0V and "Large" for 3.3V.

## Related Documents

A full explanation of the use of the Power\_On\_Reset Hysteresis function can be found in the technical bulletin "Choosing Atmel ATF150xASV(L) POR Options." This document can be found on the Atmel web site at the URL <http://www.atmel.com/atmel/products/prod144.htm>.



All the Atmel EPLD software tools described below can be found on the Atmel web site at the URL <http://www.atmel.com/atmel/products/prod147.htm>.

## Atmel POF2JED for Design Conversions

POF2JED now supports detection of 5.0V versus 3.3V parts. Users should install **POF2JED.ZIP**, version 4.40, updated October 16, 2000, or later, and check the READ.ME file for details. When a 3.3V device type is detected, the Power\_On\_Reset Hysteresis option will be automatically set to "Large".

## Atmel-Synario for New Designs

Users with new designs using Synario® will find it now checks for 5.0V versus 3.3V devices and sets the default value of the Power\_On\_Reset Hysteresis option appropriately. Users should download **SNPCH411.EXE** (Rev. 1.2), updated October 27, 2000, or later, and check the READ.ME file for details.

## Atmel-WinCUPL for New Designs

WinCUPL™ users running the fitter from a DOS prompt may either continue to force the value with a command line switch as before, or use the new CUPL property statements and adding the "-cupl" option to the fitter command line.

Before using the new property statement in the CUPL source (.pld) file, install the new version 1.5 fitters. The syntax is: "PROPERTY ATMEL {power\_reset = ON}; /\*Enable Large Hysteresis useful for low voltage devices - ATF15xxASV(L)\*/". This will cause the related statement to appear in the output (.tt2) file in the syntax required by the new fitters.

## EPLD

## Technical Bulletin

## ATF15xx Family Software Support for POR Options

Rev. 2302A-03/01





## Running Atmel ATF15xx Family Fitters from the Command Line

Atmel fitters for ATF1502, ATF1504 and ATF1508 now support a new Atmel property statement in the input PLA (.tt2) file: `#$ PROPERTY ATMEL power_reset = ON;`. For Synario users, the Power\_On\_Reset Hysteresis option is passed to the fitter automatically.

To use the new property statement, install **FIT1\_0.ZIP**, which includes ATF15xx Fitter, version 1.5 or higher, and check the READ.ME file for details. A PLA (.tt2) file generated by either an ABEL or CUPL compiler must be available as well.

The ATF15xx family of fitters has both basic and advanced option screens that instruct command line users in customizing the operation of the fitter to meet design requirements. The command line "fit15xx -h2" displays the advanced options.

Examples:

If a project file targets a 3.3V device (e.g., ATF1508ASV-JC84), use the command:

```
fit15xx project.tt2 -dev p1508c84 -str JTAG=off -str power_reset=ON
```

If the project is a CUPL source file, then add the -cupl option to your command:

```
fit15xx project.tt2 -cupl -dev p1508c84 -str JTAG=off -str power_reset=ON
```



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