Part Number: **FLASHPRO3**

The Actel family of FlashPro device programmers provides in-system programming (ISP) in an easy to use, compact system that supports IGLOO Series, ProASIC3 Series including RT ProASIC3, Fusion, ProASIC^{PLUS}, and ProASIC families. Whether you are programming a board containing a single device or multiple devices connected in a chain, you can quickly program and reprogram by connecting to a PC and the target board. FlashPro programmers provide everything you need to program flash devices for compliance with IEEE 1149, using the JTAG port.

Product Features:

Programming with the FlashPro series of programmers saves you board space, since a single JTAG chain can be used for all JTAG devices. Programming via the JTAG port adds the flexibility of field upgrades or post-assembly, production-line "characterization." Costs can be significantly reduced as a result of eliminating sockets on the board.

All FlashPro programmers use JEDEC-standard STAPL files, meaning there are no algorithms built into the software. The same software is used for the GUI of all FlashPro series programmers so you do not have to learn new software to switch from one programmer to another.

The FlashPro series of programmers may also be used for interactive debug of designs by using embedded IP in the flash devices in conjunction with the Identify Actel Edition (AE)software. In addition, Actel Fusion devices have specific debug software to allow access to Fusion-specific peripherals such as flash memory and an analog to digital converter (ADC).

Key Features:

- Supports in-system programming
- Supports IEEE 1149 JTAG programming through STAPL
- Supports IEEE 1532
- Free software updates
- Connections to parallel port and USB port available
- Self-test option
- Supports Microsoft Windows XP and 2000 Operating Systems

FlashPro3 is targeted at the latest generation of flash devices offered by Actel: IGLOO Series, ProASIC3 Series, including RT ProASIC3, and Fusion. FlashPro3 offers extremely high performance through the use of USB 2.0 and is high-speed compliant for full use of the 480 Mbps bandwidth. This newest programmer can program ProASIC3E devices in under 30 seconds; even the largest ProASIC3E devices take under two minutes to program. Powered exclusively via USB, FlashPro3 provides a V_{PUMP} voltage of 3.3 V for programming these devices.

FlashPro3 can connect to any PC with a USB port and can operate either with USB 1.1 (full-speed) or USB 2.0 (both high-speed and full-speed modes). Multiple FlashPro3 programmers may be connected via USB hubs to a single PC, enabling the end user to set up a small-scale production environment with concurrent ISP occurring across multiple boards and the FlashPro software.